



Your Television's Directions for Use



Read this manual first!

*Congratulations on purchasing this Philips product.
We've included everything you need to get started.
If you have any problems, Philips Representatives can
help you get the most from your new product by explaining:*

- Hookups,
- First Time Setup, and
- Feature Operation.

Do not attempt to return this product to the store.

***For fast help, call us first!
1-800-531-0039***

Thank you for making Philips a part of your home!

Let's make things better.



PHILIPS

Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your PHILIPS purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

Congratulations on your purchase, and welcome to the "family!"

PHILIPS



Dear PHILIPS product owner:

Thank you for your confidence in PHILIPS. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network. And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome—and thanks for investing in a PHILIPS product.

Sincerely,

Philips Consumer Electronics Company

P.S. Remember, to get the most from your PHILIPS product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

Know these
safety symbols



This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.


CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

PHILIPS Visit our World Wide Web Site at <http://www.philipsusa.com>

IMPORTANT SAFETY INSTRUCTIONS

Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or ground-ing-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manu-facturer.
12.  Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the app- aratus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental con- siderations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org
16. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
17. **Tilt/Stability** - All televisions must comply with recommend- ed international global safety standards for tilt and stability properties of its cabinet design.
 - Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
 - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
18. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
19. **Power Lines** - An outdoor antenna should be located away from power lines.
20. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the masts and supporting structure grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Figure below.
21. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the encl- osure through openings.

Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Example of Antenna Grounding as per NEC - National Electric Code

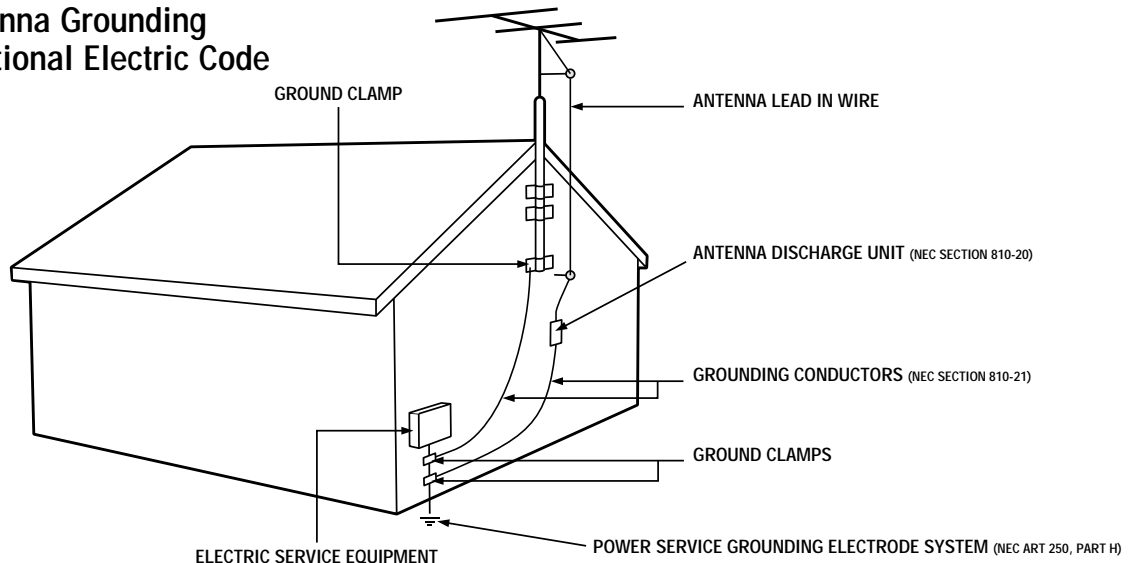


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Here are a few of the special features built into this new Color Television:

AutoLock™ feature allows you to block the viewing of certain channels or external audio/video connections where you might not want your children viewing inappropriate material.

Infrared Remote Control works your TV set, and allows you to program certain features with the press of one button. Can also be used with accessory devices such as VCRs, DVDs, Cable Boxes, and more.

Audio/Video Jackpanel for direct connections of accessory devices. Audio/Video Inputs and Outputs, along with Component Video for DVD players. There are even convenient A/V Inputs on the Side of the cabinet for Camcorder use.

Standard broadcast (VHF/UHF) or Cable TV (CATV) channel capability.

Closed Captioning allows the viewer to read TV program dialogue or voice conversations as on-screen text.

Automatic Programming of Channels for quick and easy selection of favorite stations available in your area.

On-screen Features (in either English or Spanish) show helpful messages for setting of TV controls.

On Timer automatically turns the TV ON at a preset time, and channel.

SleepTIMER automatically turns the TV OFF at preset times.

Auto Picture™ allows you to set the picture color, tint, contrast, etc. for various types of programming such as Sports, Movies, Personal, Weak Signals, or Multi Media with the push of one button.

Auto Sound™ controls allow you to set the sound controls for various types of listening programs such as Personal (sound controls the way you set them), Theater, Music, or Voice with the push of one button.

Treble, Bass and Balance controls to enhance the television's sound.

NOTE: It is possible that this owner's manual may be used with several different television models. Not all features (and drawings) discussed in this manual will necessarily match those found with your television system. This is normal and does not require you contacting your dealer or requesting service.

HOW TO USE THE PICTURE ADJUSTMENT CONTROLS

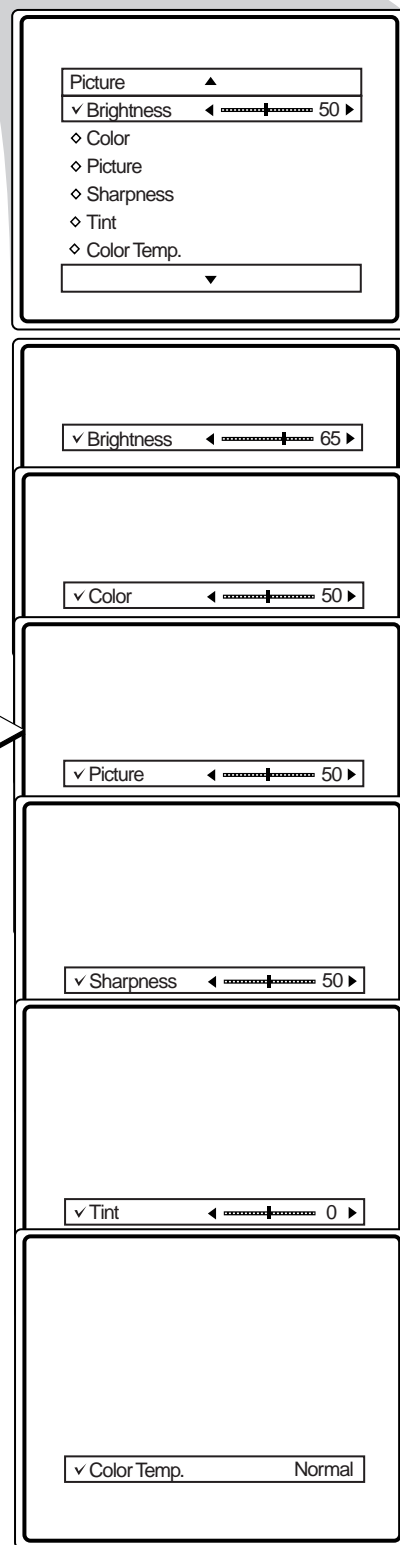
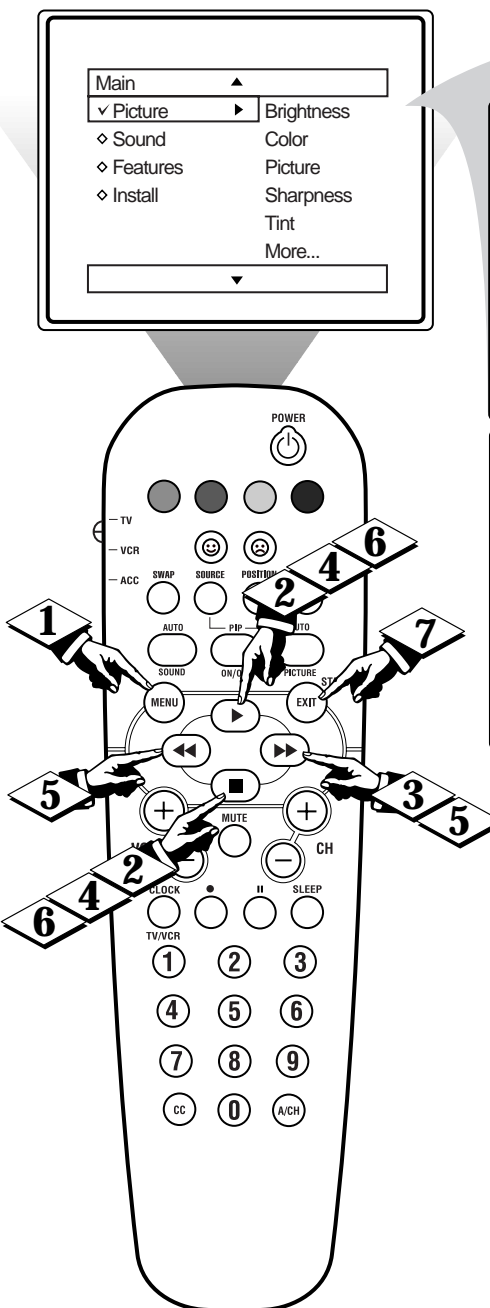


To adjust your TV picture controls, select a channel and follow the steps shown below:

BEGIN

- 1 Press the **MENU** button on the remote to display the on-screen menu.
- 2 Press the **CURSOR UP** ► or **DOWN** ■ buttons until the word **PICTURE** is highlighted.
- 3 Press the **CURSOR RIGHT** ►► button to display the **PICTURE** menu features.
- 4 Press **CURSOR UP** ► or **DOWN** ■ buttons to scroll the Picture features and highlight the control you wish to adjust (Brightness, Color, Picture, Sharpness, Tint, or Color Temp.).
- 5 Press the **CURSOR RIGHT** ►► or the **CURSOR LEFT** ◀◀ buttons to adjust the selected control or to make selections for the Color Temp. control (Normal, Warm, or Cool).
- 6 Press the **CURSOR UP** ► or **DOWN** ■ buttons to select and adjust other Picture Menu controls.
- 7 When finished, press the **STATUS /EXIT** button to remove the menu from the TV's screen.

STOP



Warm
or
Cool

SMART HELP



BRIGHTNESS Press the ►► or ◀◀ buttons until darkest parts of the picture are as bright as you prefer.

COLOR Press the ►► or ◀◀ buttons to add or eliminate color.

PICTURE Press the ►► or ◀◀ buttons until lightest parts of the picture show good detail.

SHARPNESS Press the ►► or ◀◀ buttons to improve detail in the picture.

TINT Press the ►► or ◀◀ buttons to obtain natural skin tones.

COLOR TEMP Press the ►► or ◀◀ buttons to select **NORMAL**, **COOL**, or **WARM** picture preferences. (**NORMAL** will keep the whites, white; **COOL** will make the whites, bluish; and **WARM** will make the whites, reddish.)

HOW TO USE THE DNR (NOISE REDUCTION) CONTROL

For reasons such as poor cable reception, the picture can sometime appear slightly “speckled” (or has signal noise shown in the picture). The DNR (Dynamic Noise Reduction) control can help eliminate this type of interference and improve the quality of the picture.

BEGIN

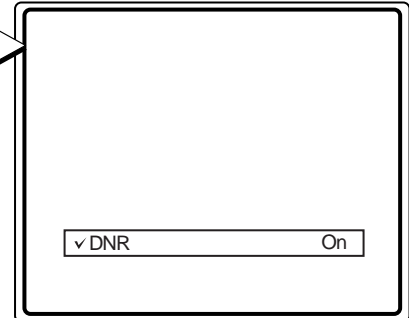
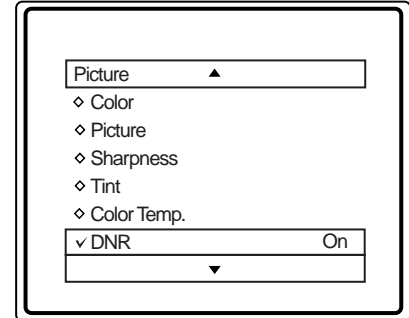
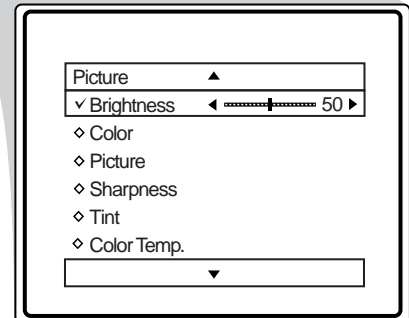
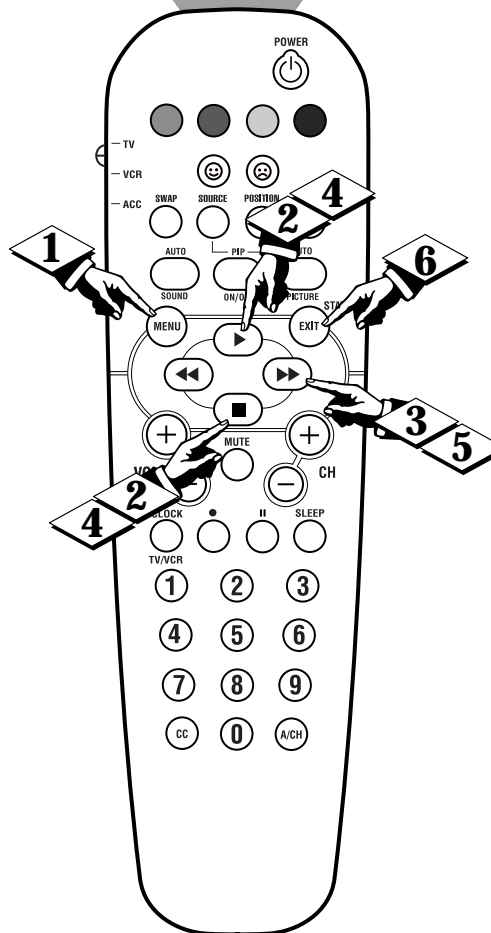
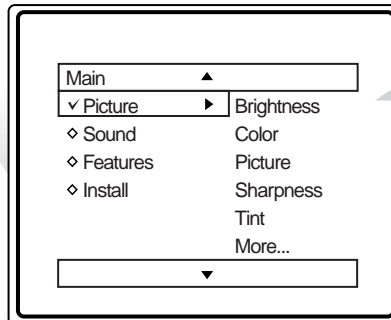
- 1** Press the **MENU** button on the remote to display the on-screen menu.
- 2** Press the **CURSOR UP** or **CURSOR DOWN** button until the word **PICTURE** is highlighted.
- 3** Press the **CURSOR RIGHT** button to display the **PICTURE** menu features.
- 4** Press the **CURSOR UP** or **CURSOR DOWN** button to scroll the Picture menu features until the word **DNR** is highlighted.
- 5** Press the **CURSOR RIGHT** button turn the **DNR** feature ON or OFF.
- 6** When finished, press the **STATUS /EXIT** button to remove the menu from the TV's screen.



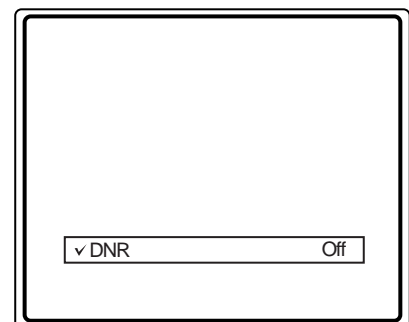
SMART HELP

“Noise” Reduction is a video adjustment feature that affects the picture quality of the TV not the sound.

NOTE: If the Sharpness control setting is under 50 (see Picture Adjustments on the previous page), the DNR control will have little or no effect to the TV's picture when switched to ON.



OR



HOW TO USE THE CONTRAST + (BLACK STRETCH) CONTROL

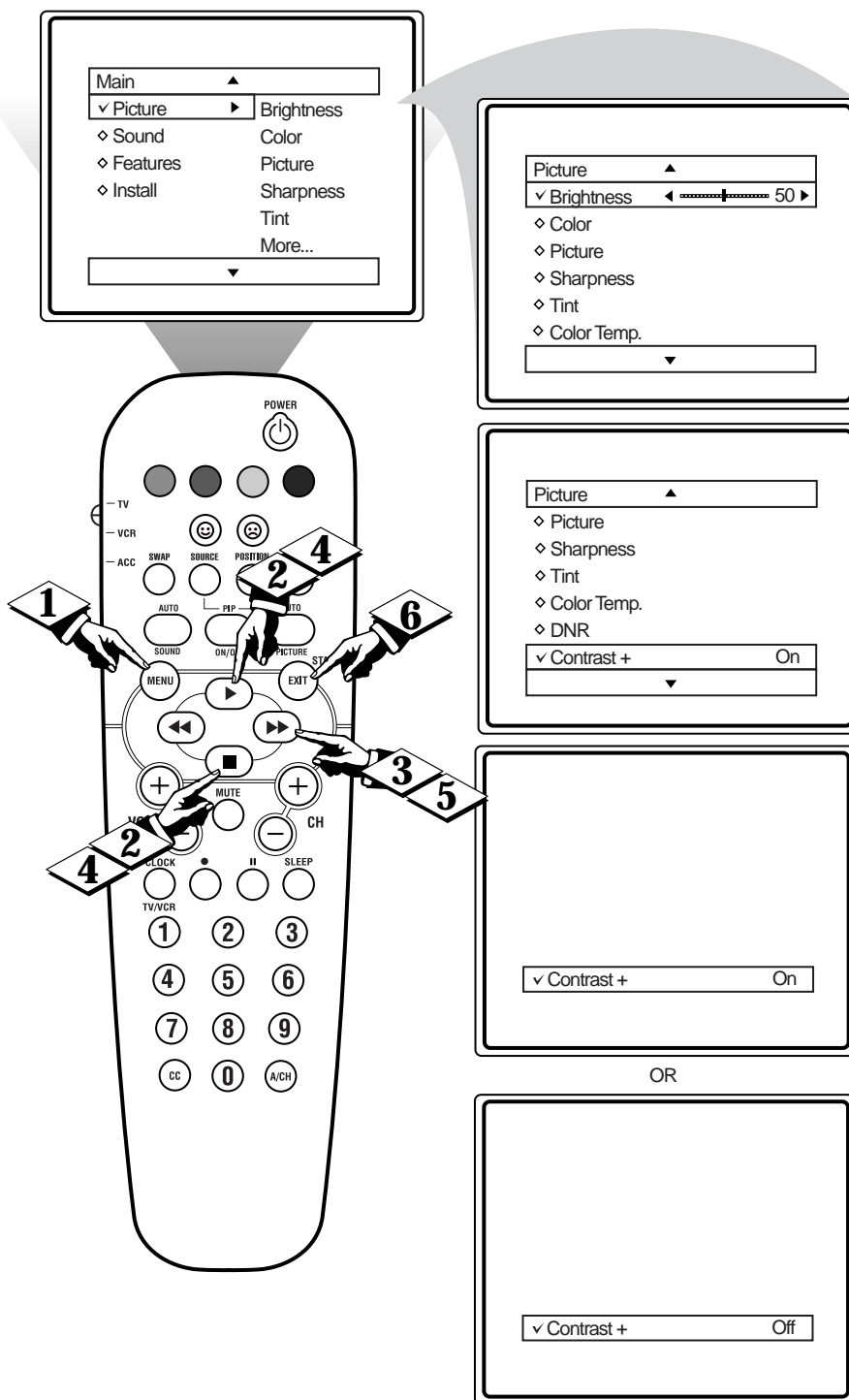


The Contrast + (Black Stretch) control helps to “sharpen” the picture quality. The black portions of the picture become richer in darkness and the whites become brighter.

BEGIN

- 1** Press the **MENU** button on the remote to display the on-screen menu.
- 2** Press the **CURSOR UP** or **CURSOR DOWN** button until the word **PICTURE** is highlighted.
- 3** Press the **CURSOR RIGHT** button to display the **PICTURE** menu features.
- 4** Press the **CURSOR UP** or **CURSOR DOWN** button to scroll the Picture menu features until the word **CONTRAST +** is highlighted.
- 5** Press the **CURSOR RIGHT** button turn the **CONTRAST +** feature ON or OFF.
- 6** When finished, press the **STATUS /EXIT** button to remove the menu from the TV's screen.

STOP



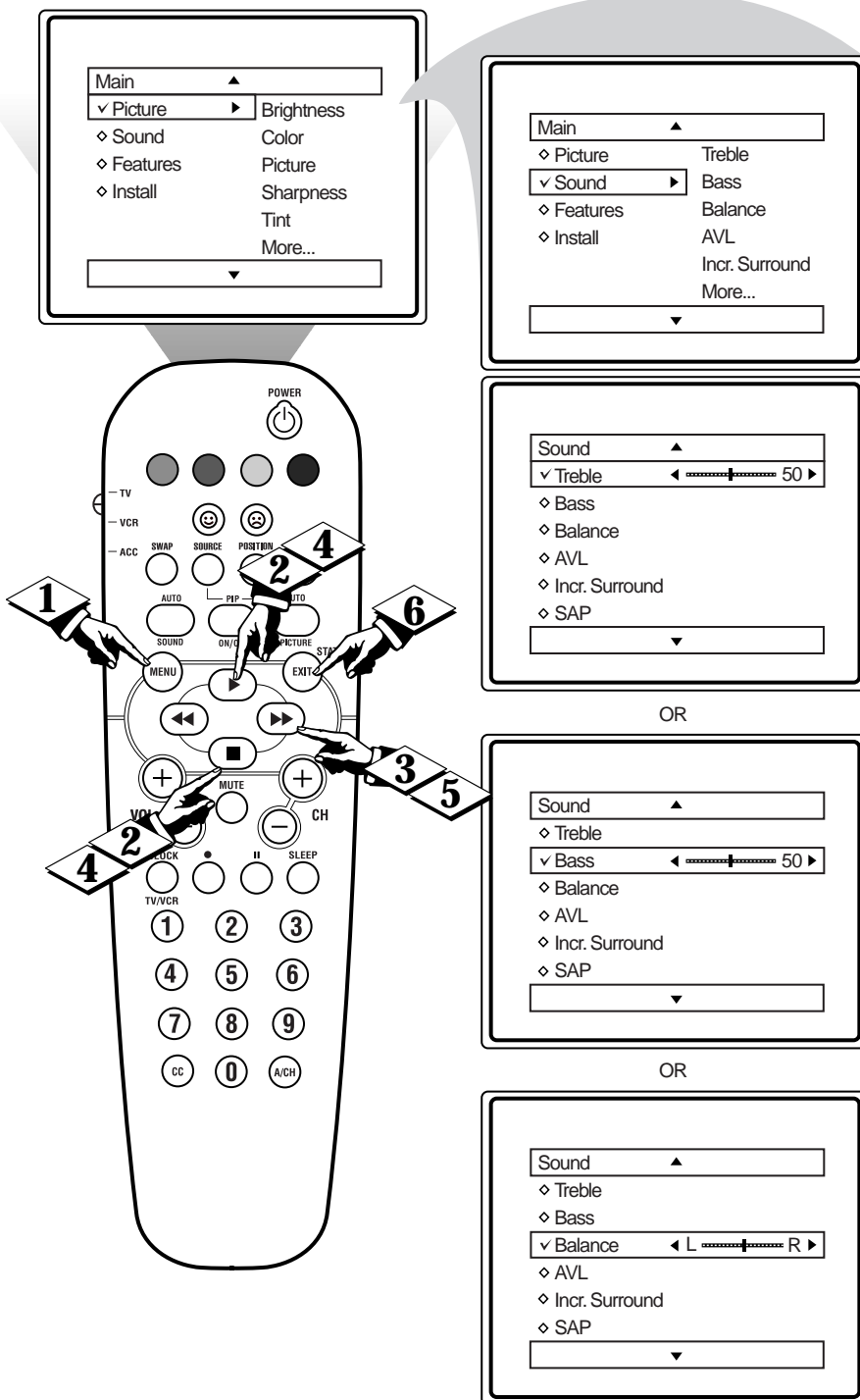


HOW TO ADJUST THE BASS, TREBLE, AND BALANCE CONTROLS

Besides the normal volume level control, your TV also has Bass, Treble and Balance sound controls. The **TREBLE** control effects only the high frequency sound coming from the TV enhancing the highs; while the **BASS** control effects only the low frequency sound coming from the TV enhancing the lows. The **Balance** control adjusts the sound level being heard from each speaker.

BEGIN

- 1 Press the **MENU** button on the remote to display the on-screen menu.
- 2 Press the **CURSOR UP** ► or **CURSOR DOWN** ■ button until the word **SOUND** is highlighted.
- 3 Press the **CURSOR RIGHT** ►► button to display the **SOUND** menu features.
- 4 Press the **CURSOR UP** ► or **CURSOR DOWN** ■ button to scroll the Sound menu features until the words **TREBLE**, **BASS** or **BALANCE** are highlighted.
- 5 Press the **CURSOR RIGHT** ►► or **LEFT** ◀◀ button to adjust the Treble, Bass or Balance controls.
- 6 When finished, press the **STATUS** /**EXIT** button to remove the menu from the TV's screen.



HOW TO USE THE AVL (AUTOMATIC VOLUME LEVELER) CONTROL

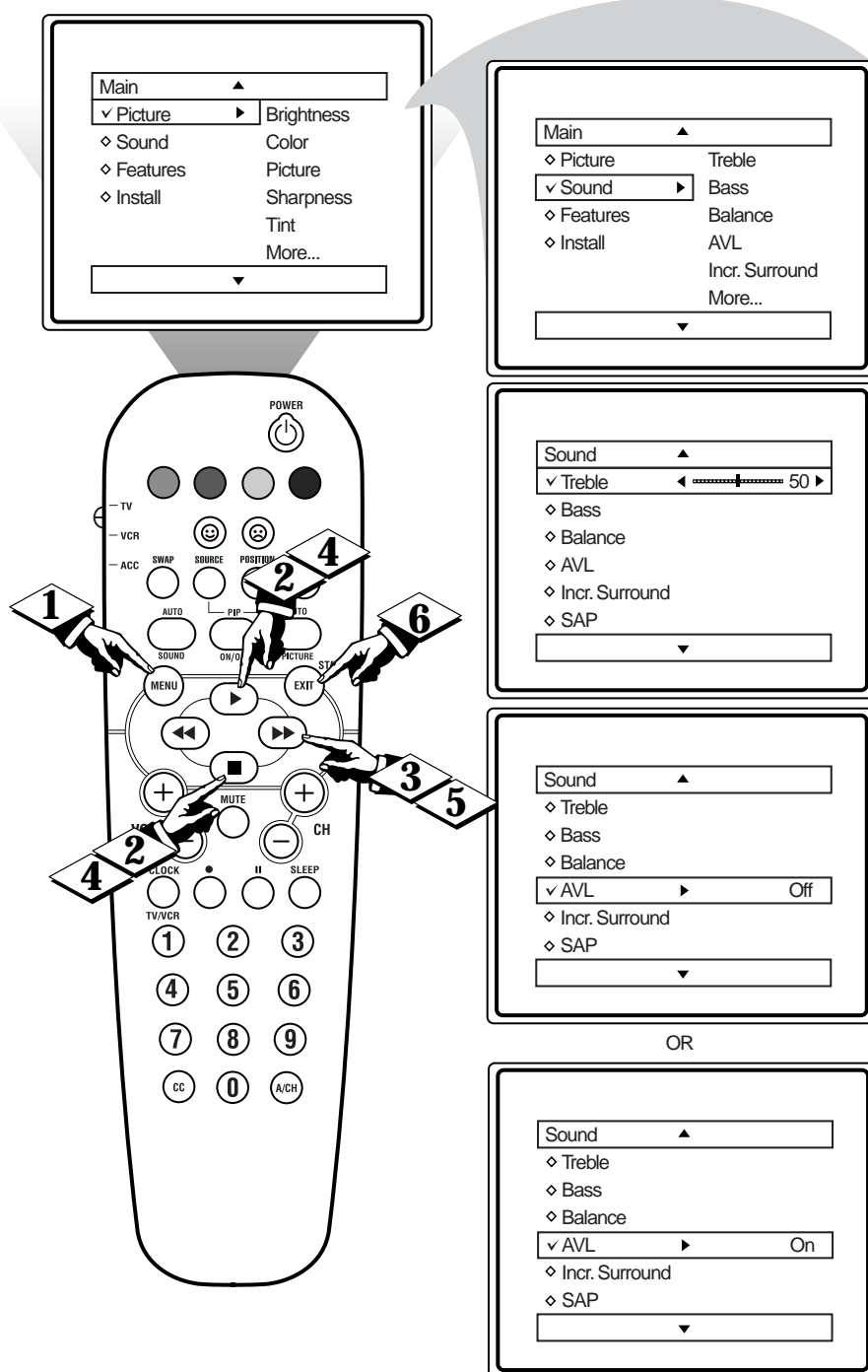


In most cases, the volume levels coming from broadcast programming or commercials are never the same. With the AVL (Audio Volume Leveler) control turned ON, you can have the TV level out sound that is being heard. This makes for a more consistent sound by reducing the peaks and valleys that occur during program changes or commercial breaks. To turn the AVL ON, follow these steps.

BEGIN

- 1 Press the **MENU** button on the remote to display the on-screen menu.
- 2 Press the **CURSOR UP** or **CURSOR DOWN** button until the word **SOUND** is highlighted.
- 3 Press the **CURSOR RIGHT** button to display the **SOUND** menu features.
- 4 Press the **CURSOR UP** or **CURSOR DOWN** button to scroll the Sound menu features until the word **AVL** is highlighted.
- 5 Press the **CURSOR RIGHT** button to turn the AVL control ON or OFF.
- 6 When finished, press the **STATUS /EXIT** button to remove the menu from the TV's screen.

STOP





SETTING THE INCREDIBLE SURROUND CONTROL

The Incredible Surround feature adds greater depth and dimension to both monaural (MONO) and stereo TV sound. With the control turned ON the TV's speakers can add even wider sound separation to normal broadcasts.

BEGIN

- 1 Press the **MENU** button on the remote to display the on-screen menu.
- 2 Press the **CURSOR UP** ► or **CURSOR DOWN** ▣ button until the word **SOUND** is highlighted.
- 3 Press the **CURSOR RIGHT** ►► button to display the **SOUND** menu features.
- 4 Press the **CURSOR UP** ► or **CURSOR DOWN** ▣ button to scroll the Sound menu features until the words **INCR. SURROUND** are highlighted.
- 5 Press the **CURSOR RIGHT** ►► button to set the Incredible Surround control as follows:

MONO: When in the Mono Sound Mode, Incredible Surround can be set to Mono or Spatial.

STEREO: When in the Stereo Sound Mode, Incredible Surround can be set to Stereo or Incredible Surround.
- 6 When finished, press the **STATUS /EXIT** button to remove the menu from the TV's screen.



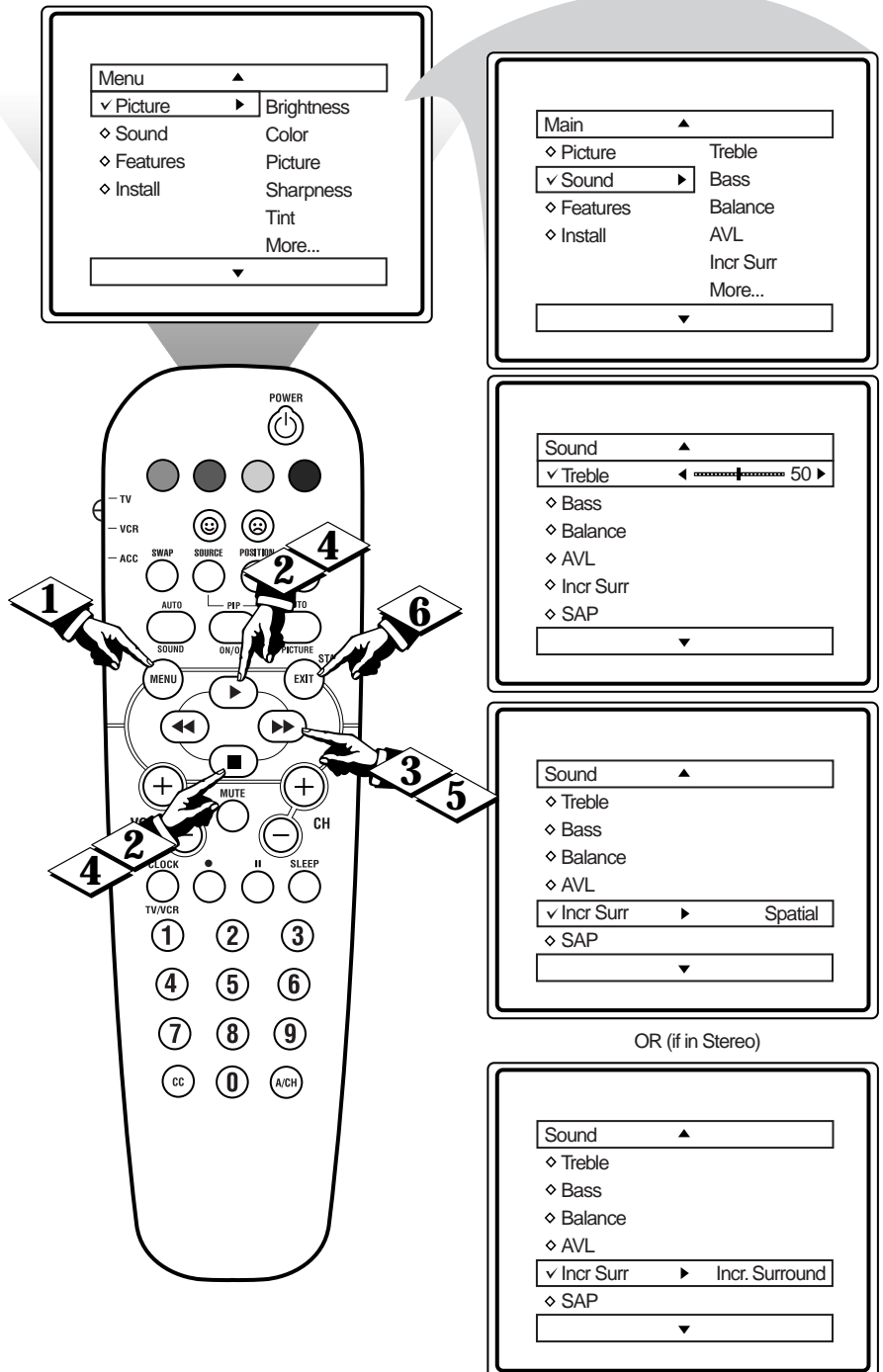
SMART HELP



NOTE: If the TV signal is being received from a mono source, pressing the INCR. SURR. button will cause either MONO or SPATIAL to appear on the the screen. If the TV signal is being received from a stereo source and the "Sound" control is set to Stereo, pressing the INCR. SURR. button will toggle two choices: STEREO and INCR. SURROUND.

SPATIAL – widens the "Mono" sound, simulating a broader, fuller sound.

INCR. SURROUND – widens the "Stereo" sound, simulating a broader, fuller sound.



SETTING THE TV FOR SAP (SECONDARY AUDIO PROGRAMS)

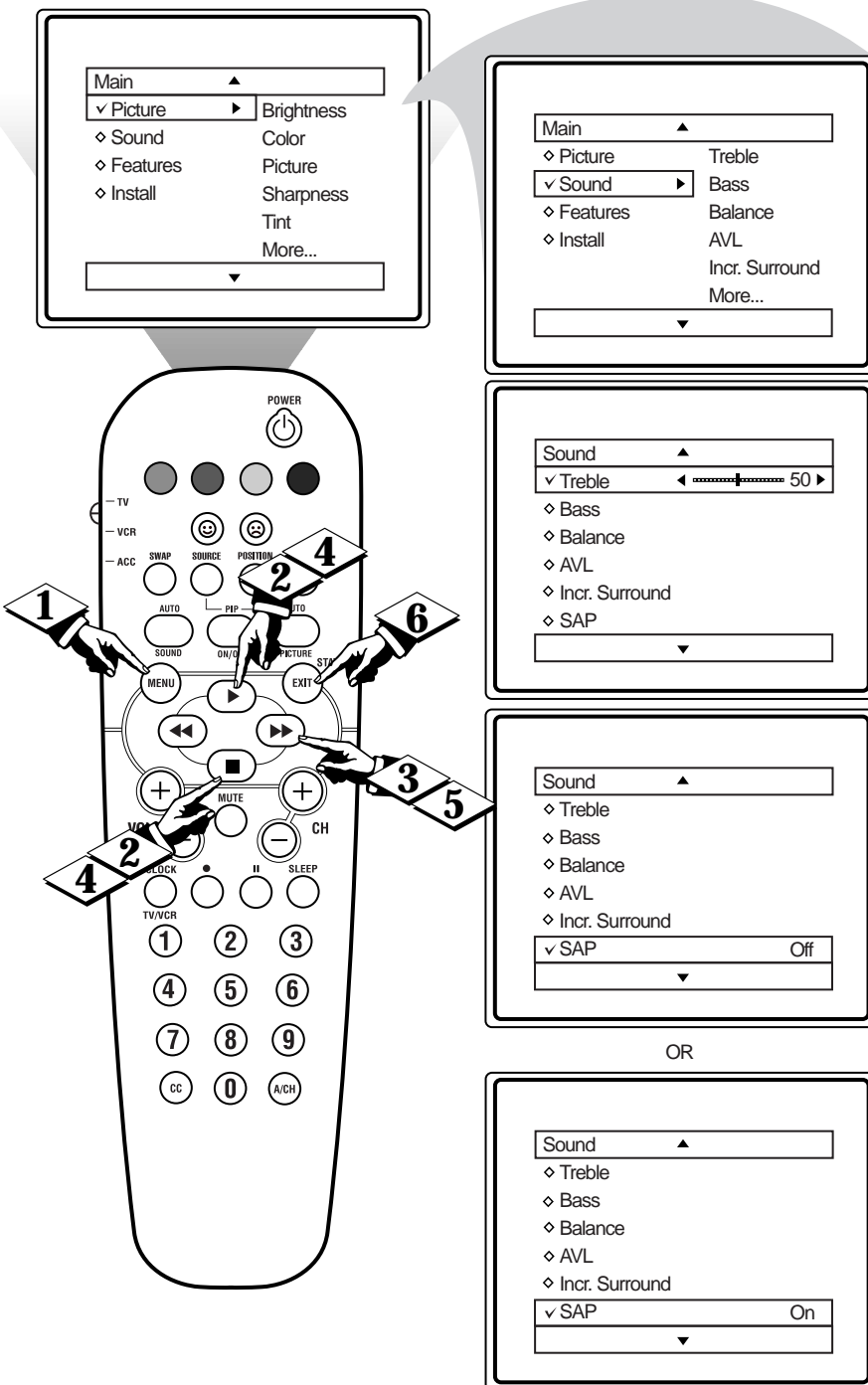


A SAP signal is an additional part of the stereo broadcast system. Sent as a third audio channel, a SAP signal can be heard apart from the current TV program sound. TV stations are free to use SAP for any number of purposes.

If a SAP signal is not present with a selected program, the SAP option cannot be selected. Also, if SAP is selected on a channel (with SAP) and you select another channel, when you return to the original channel, SAP will be OFF. You will have to reselect the SAP feature.

BEGIN

- 1 Press the **MENU** button on the remote to display the on-screen menu.
- 2 Press the **CURSOR UP** or **CURSOR DOWN** button until the word **SOUND** is highlighted.
- 3 Press the **CURSOR RIGHT** button to display the **SOUND** menu features.
- 4 Press the **CURSOR UP** or **CURSOR DOWN** button to scroll the Sound menu features until the word **SAP** is highlighted.
- 5 Press the **CURSOR RIGHT** button to turn the SAP control ON or OFF.
- 6 When finished, press the **STATUS /EXIT** button to remove the menu from the TV's screen.



Note: If SAP is not present on the channel you are tuned to, when the SAP control is set to ON the screen will read:

“SAP NOT AVAILABLE.”



SETTING THE TV TO RECEIVE STEREO PROGRAMMING

You can receive broadcast stereo TV programs. The TV has both an amplifier and twin speakers through which the stereo sound can be heard.

BEGIN

- 1 Press the **MENU** button on the remote to display the on-screen menu.
- 2 Press the **CURSOR UP** ► or **CURSOR DOWN** ■ button until the word **SOUND** is highlighted.
- 3 Press the **CURSOR RIGHT** ►► button to display the **SOUND** menu features.
- 4 Press the **CURSOR UP** ► or **CURSOR DOWN** ■ button to scroll the Sound menu features until the word **SOUND** is highlighted.
- 5 Press the **CURSOR RIGHT** ►► button to set the Sound control to Mono or Stereo.
- 6 When finished, press the **STATUS /EXIT** button to remove the menu from the TV's screen.

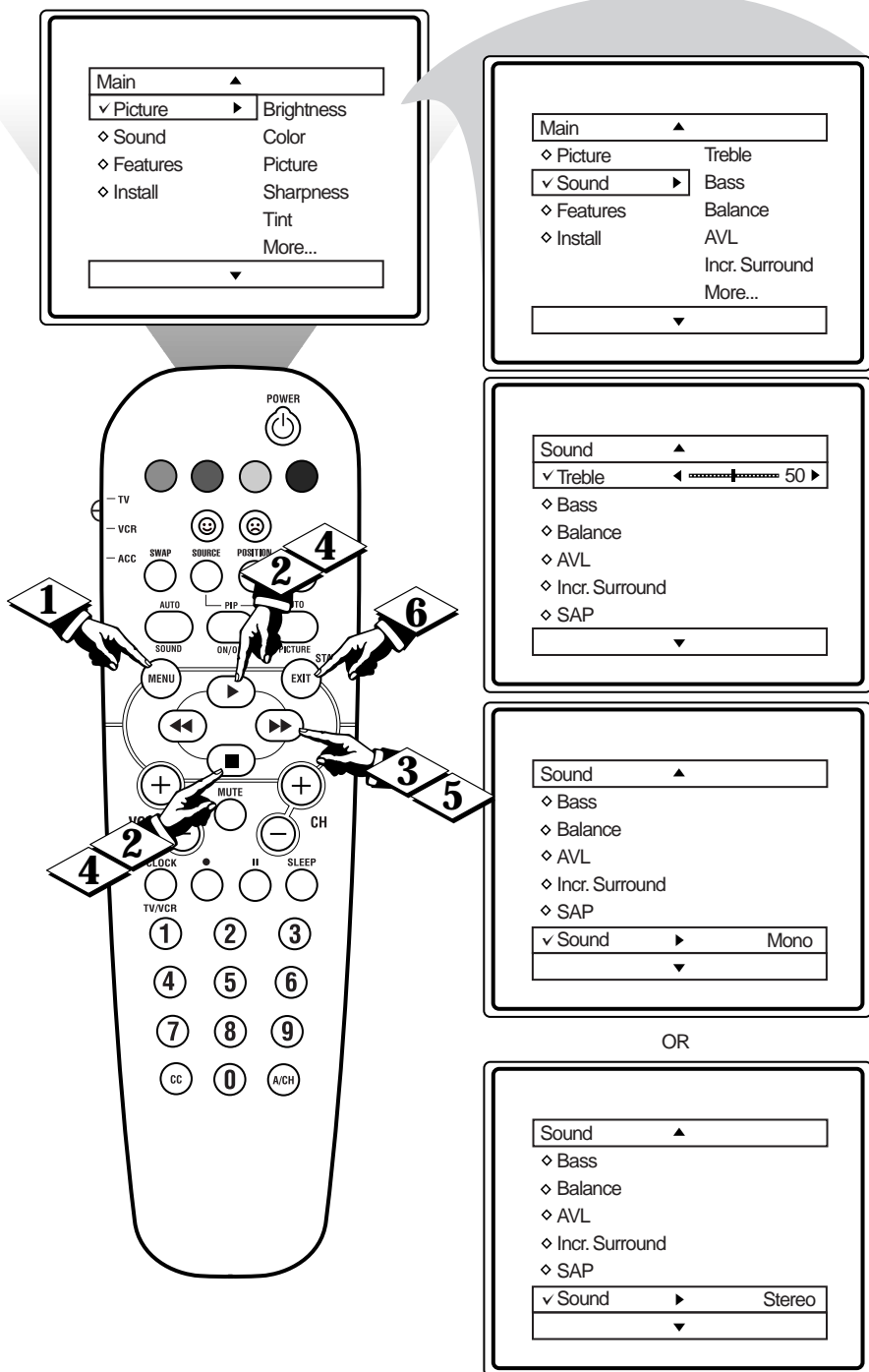


SMART HELP



Remember, if stereo is not present on a selected show, the Sound control cannot be changed to Stereo. On the other hand, if stereo is present on a selected show the Sound control can be set to Mono.

When channel changes are made, the screen may indicate Mono for a second or two, then change to Stereo if the signal being received is in stereo.



HOW TO USE THE TIMER CONTROLS



The Timer controls allow you to use your TV as an alarm clock if set to turn itself on and off at a specific time. It also can be set to tune to a specific channel at a specific time.

BEGIN

1 Press the CLOCK button on the remote. The Timer menu will appear on the screen.

2 Press the CURSOR UP ► or DOWN ◄ button to highlight one of the Timer controls you wish to set (Time, Start Time, Stop Time, Channel, Activate, or Display).

3 Press the CURSOR RIGHT ►► button to adjust the selected option.

TIME: Enter the current time with the numbered buttons. Use the Cursor Right button to move to the AM/PM area and use the Cursor Left or Right buttons to toggle AM or PM.

START TIME: Use the numbered buttons to enter a start-up time for the TV to turn on or to tune a specific channel.

STOP TIME: Use the numbered buttons to enter a time for the TV to shut itself off.

CHANNEL: Use the Numbered buttons or the CH + or – buttons to select a specific channel for the TV to tune to at the specific Start Time.

ACTIVATE: Set the Timer to preform it's function ONCE or DAILY.

DISPLAY: Set to ON or OFF. When ON, the time will be displayed ALL the time the TV in ON. When OFF, the time will only appear when the STATUS/EXIT button is pressed.

4 When finished, press the STATUS/EXIT button to remove the menu from the TV's screen.



Timer	▲
✓ Time	10 :30 AM
◇ Start Time	
◇ Stop Time	
◇ Channel	
◇ Activate	
◇ Display	
	▼

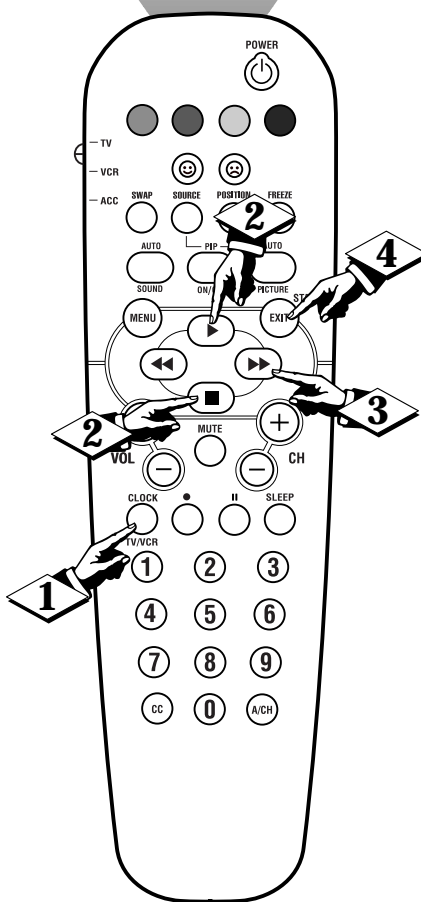
Features	▲
◇ Timer	
✓ Start Time	12 :30 PM
◇ Stop Time	
◇ Channel	
◇ Activate	
◇ Display	
	▼

Timer	▲
◇ Time	
◇ Start Time	
✓ Stop Time	1 :30 PM
◇ Channel	
◇ Activate	
◇ Display	
	▼

Timer	▲
◇ Time	
◇ Start Time	
◇ Stop Time	
✓ Channel	10
◇ Activate	
◇ Display	
	▼

Timer	▲
◇ Time	
◇ Start Time	
◇ Stop Time	
◇ Channel	
✓ Activate	Once
◇ Display	
	▼

Timer	▲
◇ Time	
◇ Start Time	
◇ Stop Time	
◇ Channel	
◇ Activate	
✓ Display	On
	▼





UNDERSTANDING THE AUTOLOCK CONTROLS

The AutoLock feature is an integrated circuit that receives and processes data sent by broadcasters, or other program providers, that contain program content advisories. When programmed by the viewer, a TV with AutoLock can respond to the content advisories and block program content that may be found objectionable (such as offensive language, violence, sexual situations, etc.). This is a great feature to censor the type of viewing children may watch.

Over the next few pages you'll learn how to block channels and certain rated programming. Below is a brief explanation of some terms and ratings you will find in the AutoLock feature.

AutoLock offers various BLOCKING controls from which to choose:

Access Code: An Access Code must be set to prevent children from unblocking questionable or censored programming set by their parents.

Channel Block: After an access code has been programmed, you can block individual channels including the A/V inputs.

Clear All: Allows you clear all channels being blocked from your viewing set with the Channel Block Control.

Block All: Allows you to block ALL channels and A/V inputs at one time.

Movie Ratings: Certain blocking options exist which will block programming based on ratings patterned by the Motion Pictures Association of America.

TV Ratings: Just like the Movie Ratings, programs can be blocked from viewing using standard TV ratings set by TV broadcasters.

To learn more about the Motion Picture Association of America Ratings and the TV Broadcasters Television Ratings, refer to the definitions listed on the columns to the right.

Movie Rating ▲	
✓ G On	
◇ PG	
◇ PG-13	
◇ R	
◇ NC-17	
◇ X	
	▼

TV Rating ▲	
✓ TV-Y On	
◇ TV-Y7	
◇ TV-G	
◇ TV-PG	
◇ TV-14	
◇ TV-MA	
	▼

MOVIE RATINGS

(MOTION PICTURE ASSOCIATION OF AMERICA)

G: General Audience - All ages admitted. Most parents would find this program suitable for all ages. This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or situations.

PG: Parental Guidance Suggested - This programming contains material that parents may find unsuitable for younger children. It may contain one or more of the following: moderate violence, some sexual situations, infrequent coarse language, or some suggestive dialogue.

PG-13: Parents Strongly Cautioned - This programming contains material that parents may find unsuitable for children under the age of 13. It contains one or more of the following: violence, sexual situations, coarse language, or suggestive dialogue.

R: Restricted - This is programming is specifically designed for adults. Anyone under the age of 17 should only view this programming with an accompanying parent or adult guardian. It contains one or more of the following: intense violence, intense sexual situations, strong coarse language, or intensely suggestive dialogue.

NC-17: No one under the age of 17 will be admitted. - This type of programming should be viewed by adults only. It contains graphic violence, explicit sex, or crude indecent language.

X: Adults Only - This type of programming contains one or more of the following: very graphic violence, very graphic and explicit or indecent sexual acts, very coarse and intensely suggestive language.

TV PARENTAL GUIDELINES

(TV BROADCASTERS)

TV-Y (All children) - This program is designed to be appropriate for all children. Designed for a very young audience, including children ages 2-6. This type of programming is not expected to frighten younger children.

TV-Y7 (Directed to Older Children) - This program is designed for children age 7 and above. It may be more appropriate for children who have acquired the development skills needed to distinguish between make-believe and reality. This programming may include mild fantasy and comic violence (FV).

TV-G (General Audience) - Most parents would find this program suitable for all ages. This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or situations.

TV-PG (Parental Guidance Suggested) - This program contains material that parents may find unsuitable for younger children. This type of programming contains one or more of the following: moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).

TV-14 (Parents Strongly Cautioned) - This program contains some material that many parents would find unsuitable for children under 14 years of age. This type of programming contains one or more of the following: intense violence (V), intense sexual situations (S), strong coarse language (L), or intensely suggestive dialogue (D).

TV-MA (Mature Audience Only) - This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17. This type of programming contains one or more of the following: graphic violence (V), explicit sexual situations (S), or crude indecent language (L).

SETTING UP THE AUTOLOCK ACCESS CODE



Over the next few pages you'll learn how to block channels and get a better understanding of the rating terms for certain programming.

First, let's start by learning how to set a personal access code:

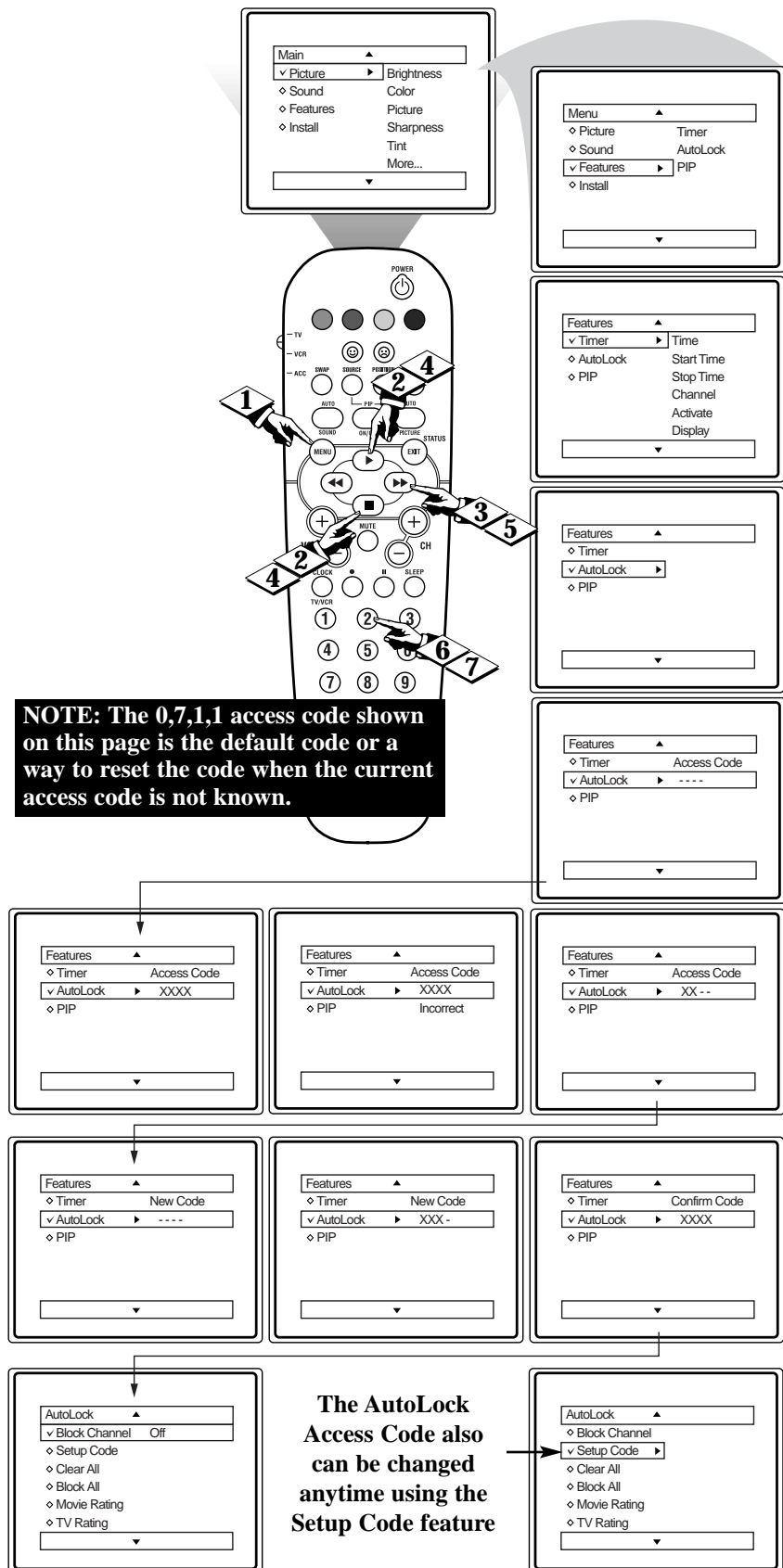
BEGIN

- 1 Press the **MENU** button on the remote to display the on-screen menu.
 - 2 Press the **CURSOR UP** ► or **DOWN** ■ button until the word **FEATURES** is highlighted.
 - 3 Press the **CURSOR RIGHT** ►► button to display the **FEATURES** menu options.
 - 4 Press the **CURSOR UP** ► or **DOWN** ■ button until the words **AUTOLOCK** are highlighted.
 - 5 Press the **CURSOR RIGHT** ►► button. The screen will read, "ACCESS CODE - - - -".
 - 6 Using the **NUMBERED** buttons, enter 0, 7, 1, 1. "XXXX" appears on the Access Code screen as you press the numbered buttons.
- "INCORRECT CODE" will appear on the screen, and you will need to enter 0, 7, 1, 1 again.
- 7 The screen will ask you to enter a "New Code." Enter a "new" 4 digit code using the **NUMBERED** buttons. The screen will then ask you to **CONFIRM** the code you just entered. Enter your new code again. "XXXX" will appear when you enter your new code and then display the AutoLock menu options.

Proceed to the next page to learn more...

SMART HELP

Parents - it isn't possible for your child to unblock a channel without knowing your access code or changing it to a new one. If your code changes, and you didn't change it, then you know it's been altered by someone else and blocked channels have been viewed.





HOW TO BLOCK CHANNELS

After your personal access code has been set (see previous page), you are now ready to select the channels or A/V Inputs you want to block out or censor.

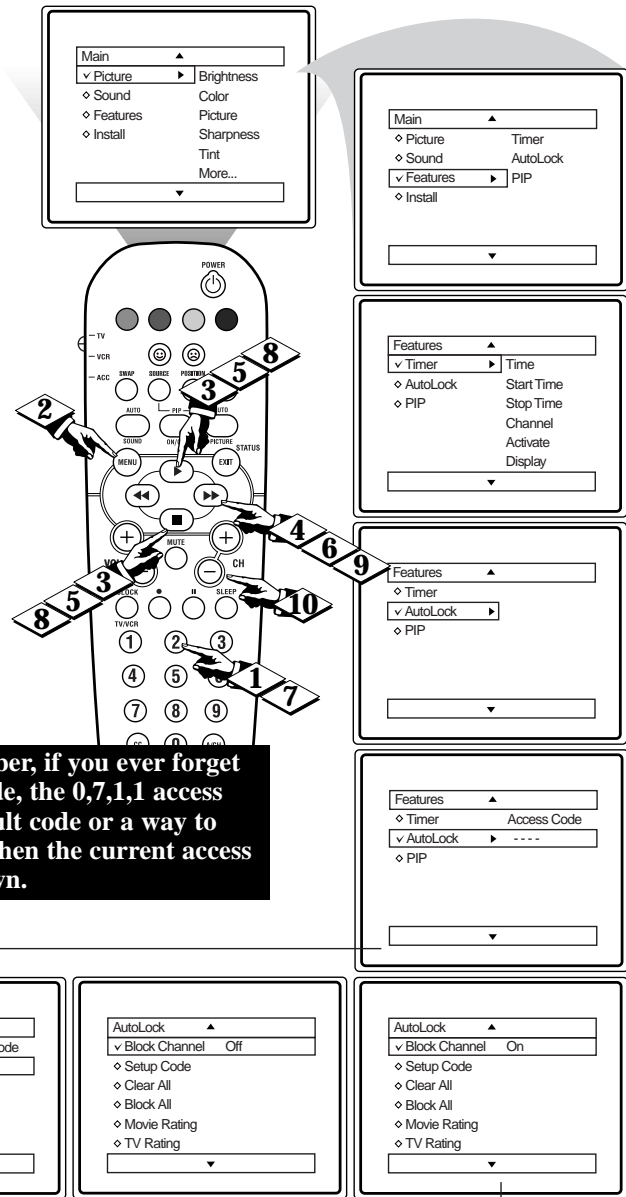
BEGIN

- 1 Press the **NUMBERED (or CH +, -) buttons** to tune the channel you wish to block or censor.
- 2 Press the **MENU button** on the remote to show the on-screen menu.
- 3 Press the **CURSOR UP ► or DOWN ▼ button** until the word **FEATURES** is highlighted.
- 4 Press the **CURSOR RIGHT ►► button** to display the **FEATURES** menu options.
- 5 Press the **CURSOR UP ► or DOWN ▼ button** until the words **AutoLock** are highlighted.
- 6 Press the **CURSOR RIGHT ►► button**.
- 7 Enter the correct access code number. "XXXX" shows on the Access Code display as you press the **NUMBERED buttons**. AutoLock menu options will be displayed.
- 8 Press the **CURSOR UP ► or DOWN ▼ button** until the words **BLOCK CHANNELS** are highlighted.
- 9 Press the **CURSOR RIGHT ►► button** to turn blocking ON or OFF for that channel. When ON is selected the channel will be blocked.
- 10 Press the **CH + or - button** to select other channels you wish to block. Repeat step 9 to block the new channel.

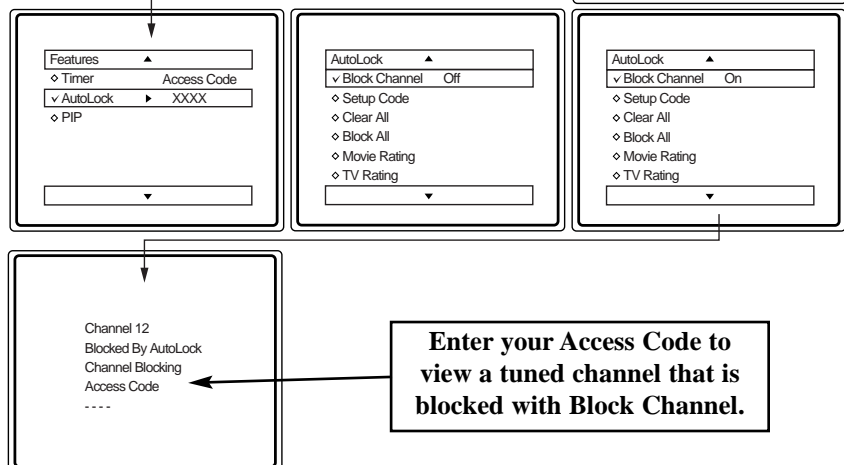


SMART HELP

If you tune to a blocked channel and enter your Access Code to view the channel, ALL blocked channels will be viewable until the TV has been turned off. When the TV is powered back ON, the previously blocked channels will be blocked again.



NOTE: Remember, if you ever forget your Access Code, the 0,7,1,1 access code is the default code or a way to reset the code when the current access code is not known.



HOW TO CLEAR ALL BLOCKED CHANNELS AT THE SAME TIME



After blocking specific channels there may come a time when you want to clear all the channels so they can be viewed. The following steps explain how to **CLEAR ALL** blocked channels.

BEGIN

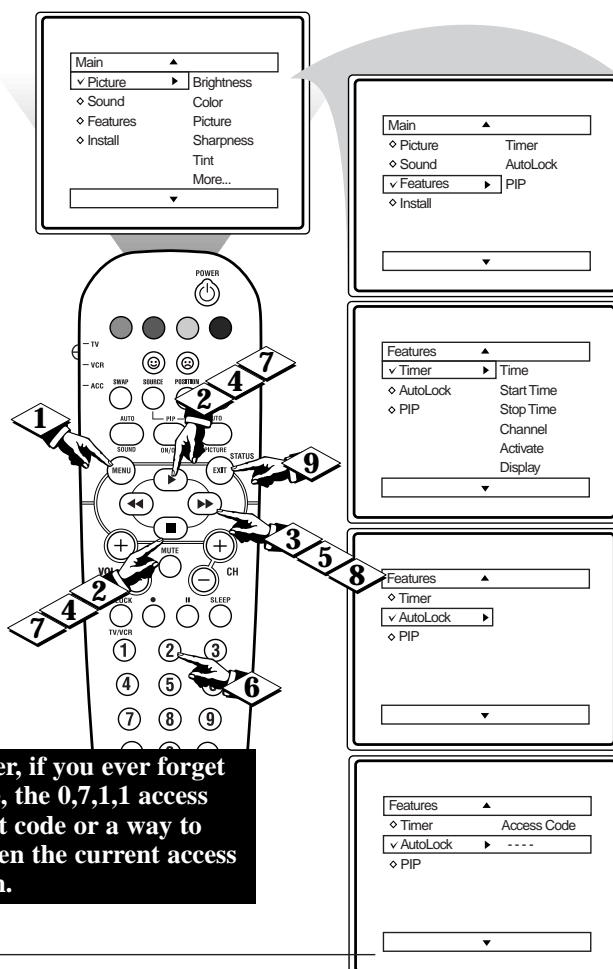
- 1 Press the **MENU** button on the remote to show the on-screen menu.
- 2 Press the **CURSOR UP** or **DOWN** button until the word **FEATURES** is highlighted.
- 3 Press the **CURSOR RIGHT** button to display the **FEATURES** menu options.
- 4 Press the **CURSOR UP** or **DOWN** button until the words **AutoLock** are highlighted.
- 5 Press the **CURSOR RIGHT** button.
- 6 Enter the correct access code number. "XXXX" shows on the Access Code display as you press the **NUMBERED** buttons. AutoLock menu options will be displayed.
- 7 Press the **CURSOR UP** or **DOWN** buttons until the words **CLEAR ALL** are highlighted.
- 8 Press the **CURSOR RIGHT** button to clear all blocked channels. The Clear All option will read, "Cleared."
- 9 When finished, press the **STATUS /EXIT** button to remove the menu from the TV's screen.



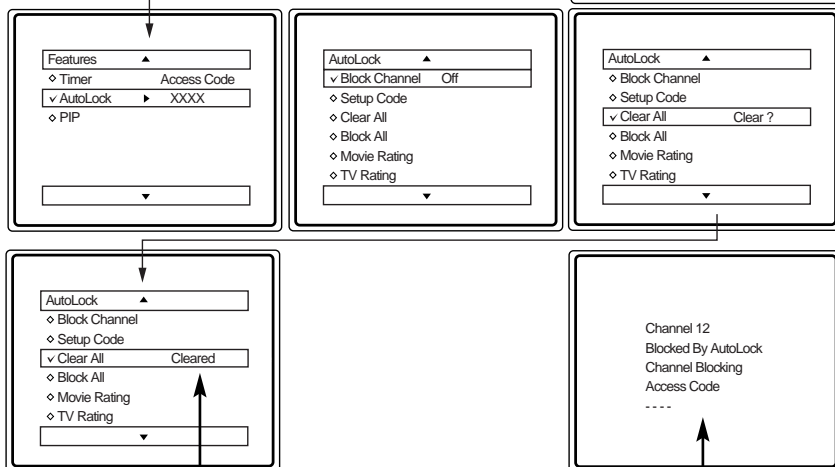
SMART HELP

If you tune to a blocked channel and enter your Access Code to view the channel, ALL blocked channels will be viewable until the TV is powered OFF and then turned back ON. When the TV is powered back ON, the previously blocked channels will be blocked again.

CLEAR ALL will not work with the Movie and TV Ratings. These options must be reset individually.



NOTE: Remember, if you ever forget your Access Code, the 0,7,1,1 access code is the default code or a way to reset the code when the current access code is not known.



The Clear All option when activated will unblock ALL blocked channels. It will not affect programming blocked by the Movie or TV Rating options.

Or, enter your Access Code to view a tuned channel that is blocked with Block Channel.



HOW TO BLOCK ALL CHANNELS AT THE SAME TIME

There may come a time when you want to Block All the television's channels. Maybe you don't want your children to watch TV for a given time. With the Block All control, ALL available channels (including the A/V Inputs) can be set to block at the same time.

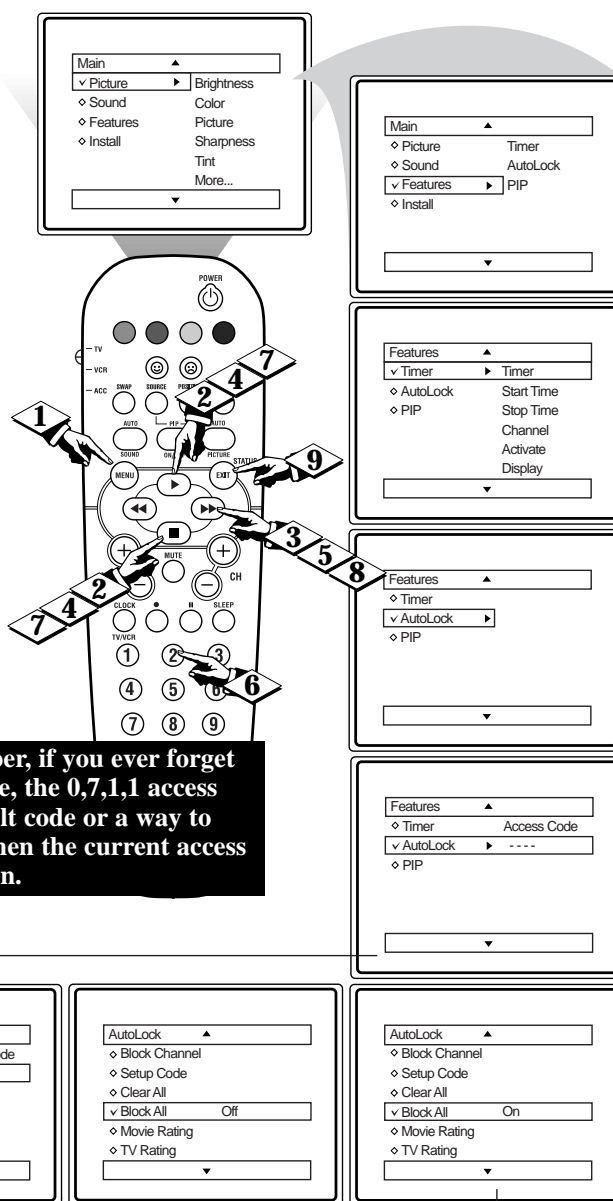
BEGIN

- 1 Press the **MENU** button on the remote to show the on-screen menu.
- 2 Press the **CURSOR UP** ► or **DOWN** ■ button until the word **FEATURES** is highlighted.
- 3 Press the **CURSOR RIGHT** ►► button to display the **FEATURES** menu options.
- 4 Press the **CURSOR UP** ► or **DOWN** ■ button until the words **AutoLock** are highlighted.
- 5 Press the **CURSOR RIGHT** ►► button.
- 6 Enter the correct access code number. "XXXX" shows on the Access Code display as you press the **NUMBERED** buttons. AutoLock menu options will be displayed.
- 7 Press the **CURSOR UP** ► or **DOWN** ■ buttons until the words **BLOCK ALL** are highlighted.
- 8 Press the **CURSOR RIGHT** ►► button to turn Block All ON or OFF. When ON is selected, ALL available channels will be blocked.
- 9 When finished, press the **STATUS/EXIT** button to remove the menu from the screen.

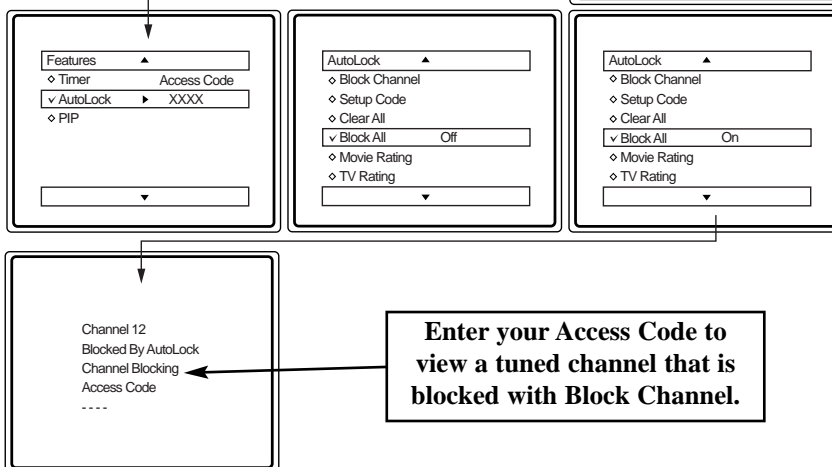


SMART HELP

If you tune to a blocked channel and enter your Access Code to view the channel, ALL blocked channels will be viewable until the TV has been turned off. When the TV is powered back ON, the previously blocked channels will be blocked again.



NOTE: Remember, if you ever forget your Access Code, the 0,7,1,1 access code is the default code or a way to reset the code when the current access code is not known.



BLOCKING PROGRAMMING BASED ON MOVIE RATINGS



There are two types of program ratings within the AutoLock feature. One is based on the Movie Industry ratings while the other is based on the TV Industry ratings. Both can be used to block or censor programming that has been rated in either manner.


Let's first look at the Movie Rating options of AutoLock:

BEGIN

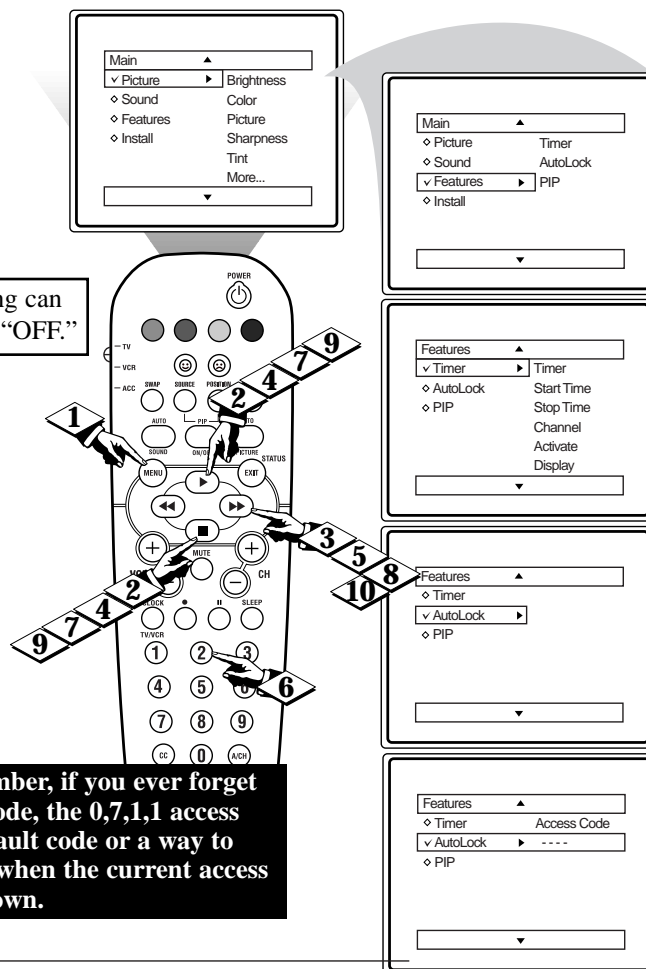
- 1 Press the **MENU** button on the remote to display the on-screen menu.
- 2 Press the **CURSOR UP** or **DOWN** button until the word **FEATURES** is highlighted.
- 3 Press the **CURSOR RIGHT** button to display the **FEATURES** menu options.
- 4 Press the **CURSOR UP** or **DOWN** button until **AutoLock** is highlighted.
- 5 Press the **CURSOR RIGHT** button. The screen will prompt you for your Access Code.
- 6 Using the **NUMBERED** buttons on the remote, enter your 4 digit Access Code. The AutoLock menu options will be displayed.
- 7 Press the **CURSOR UP** or **DOWN** button to highlight the words **MOVIE RATINGS**.
- 8 Press the **CURSOR RIGHT** button to display the **MOVIE RATINGS** options (G, PG, PG-13, R, NC17, or X).
- 9 Press the **CURSOR UP** or **DOWN** button to highlight any of the Movie Ratings options. When highlighted, all these options can be turned **ON** (which will allow blocking) or **OFF** (which will allow viewing).
- 10 Use the **CURSOR RIGHT** button on the remote to turn the rating option ON or OFF.

STOP

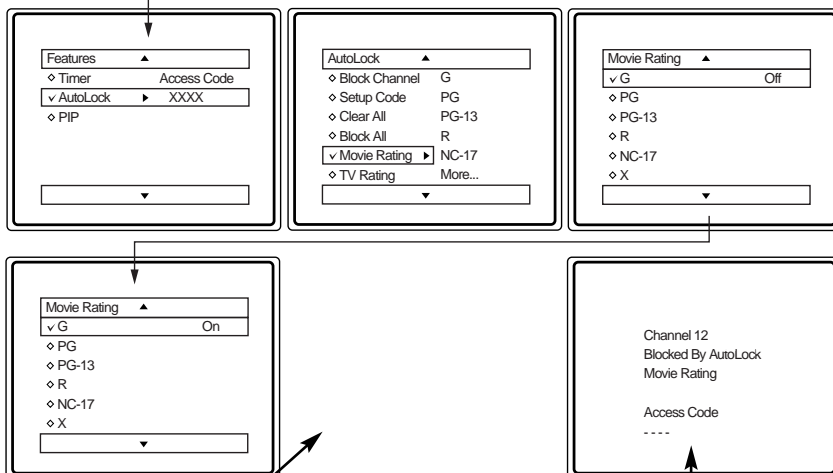
SMART HELP

 When a rating is set to block, all higher ratings will be automatically blocked as well. (Example: If the PG-13 rating is set to block, the R, NC-17, and X ratings will also be blocked.)

Each Movie Rating can be turned "ON" or "OFF."



NOTE: Remember, if you ever forget your Access Code, the 0,7,1,1 access code is the default code or a way to reset the code when the current access code is not known.



Unrated: All unrated programming based on Movie and TV Ratings can be blocked if this feature is set to "ON" and the Blocking feature is set to "OFF."

No Rating: All programming with NO content advisory data can be blocked if this feature is set to "ON" and the Blocking feature is set to "OFF."

To view a program blocked by the Movie Rating options, enter your 4 digit access code. This will disable all blocked Movie Ratings until the TV is powered off and on again. Then the blocking options will be restored.



BLOCKING PROGRAMMING BASED ON TV RATINGS

This portion of the AutoLock features cover program ratings based on the TV Industry rating system. This is known as TV Ratings within AutoLock.

After selecting the Autolock feature and entering your personal access code, the AutoLock options screen appears;

(BEGIN)

1 Scroll the menu using the **CURSOR UP** or **DOWN** buttons until the words **TV RATINGS** are highlighted.

2 Press the **CURSOR RIGHT** button to display the TV Ratings (TV-Y, TV-Y7, TV-G, TV-PG, TV-14, or TV-MA). When highlighted, the TV-Y and TV-G can be turned **ON** (which will allow blocking) or **OFF** (which will allow viewing), of these rated programs.

The ratings of TV-Y7, TV-PG, TV-14, TV-MA can be customized to block V (violence), FV (fantasy violence), S (sexual situations), L (coarse language), or D (suggestive dialogue).

3 Press the **CURSOR UP** or **DOWN** button to highlight the desired rating.

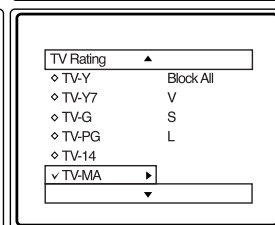
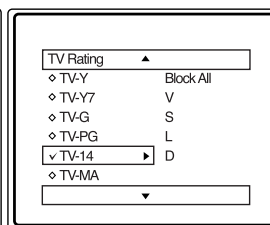
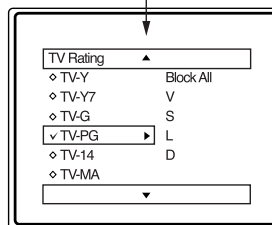
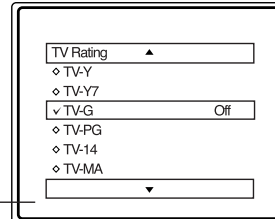
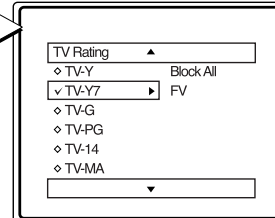
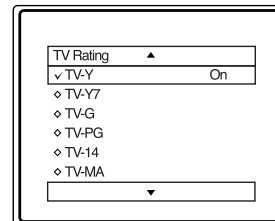
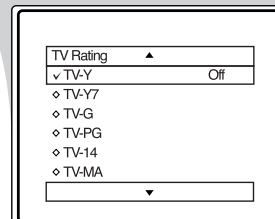
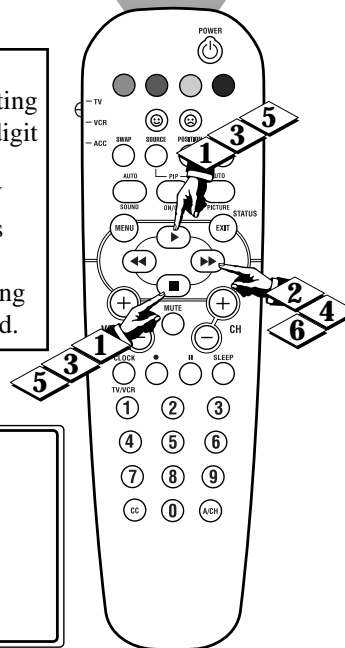
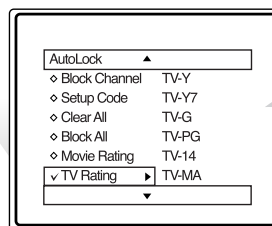
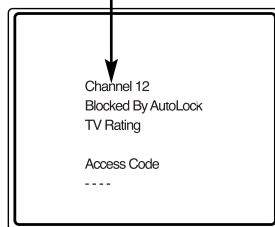
4 Press the **CURSOR RIGHT** button on the remote to turn the TV-Y or TV-G rating **ON** or **OFF**. Or, press the **CURSOR RIGHT** button to enter the sub-menus for the TV-Y7, TV-PG, TV-14 or TV-MA ratings.

5 If the TV-Y7, TV-PG, TV-14 or TV-MA sub-menu is accessed, press the **CURSOR UP** or **CURSOR DOWN** button to select one of the options (Block All, V, S, L, D, or FV).

6 Press the **CURSOR RIGHT** button on the remote to turn the option **ON** or **OFF**.



To view a program blocked by the TV Rating options, enter your 4 digit access code. This will disable all blocked TV Ratings until the TV is powered off and on again. Then the blocking options will be restored.



TV Ratings and Rating Sub-Menus

When a TV Rating is selected to block, ALL higher ratings will be blocked also.

TV-Y - (All children -- *This program is designed to be appropriate for all children.*) Designed for a very young audience, including children ages 2-6. This type of programming is not expected to frighten younger children.

TV-Y7 - (Directed to Older Children -- *This program is designed for children age 7 and above.*) It may be more appropriate for children who have acquired the development skills needed to distinguish between make-believe and reality. This programming may include mild fantasy and comic violence (FV).

TV-G - (General Audience -- *Most parents would find this program suitable for all ages.*) This type of programming contains little or no violence, no strong language and little or no sexual dialogue or situations.

TV-PG - (Parental Guidance Suggested -- *This program contains material that parents may find unsuitable for younger children.*) This type of programming contains one or more of the following: some suggestive dialogue (D), infrequent coarse language (L), some sexual situations (S), or moderate violence (V).

TV-14 - (Parents Strongly Cautioned -- *This program contains some material that many parents would find unsuitable for children under 14 years of age.*) This type of programming contains one or more of the following: intensely suggestive dialogue (D), strong coarse language (L), intense sexual situations (S), or intense violence (V).

TV-MA - (Mature Audience Only -- *This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.*) This type of programming contains one or more of the following: crude indecent language (L), explicit sexual situations (S), or graphic violence (V).

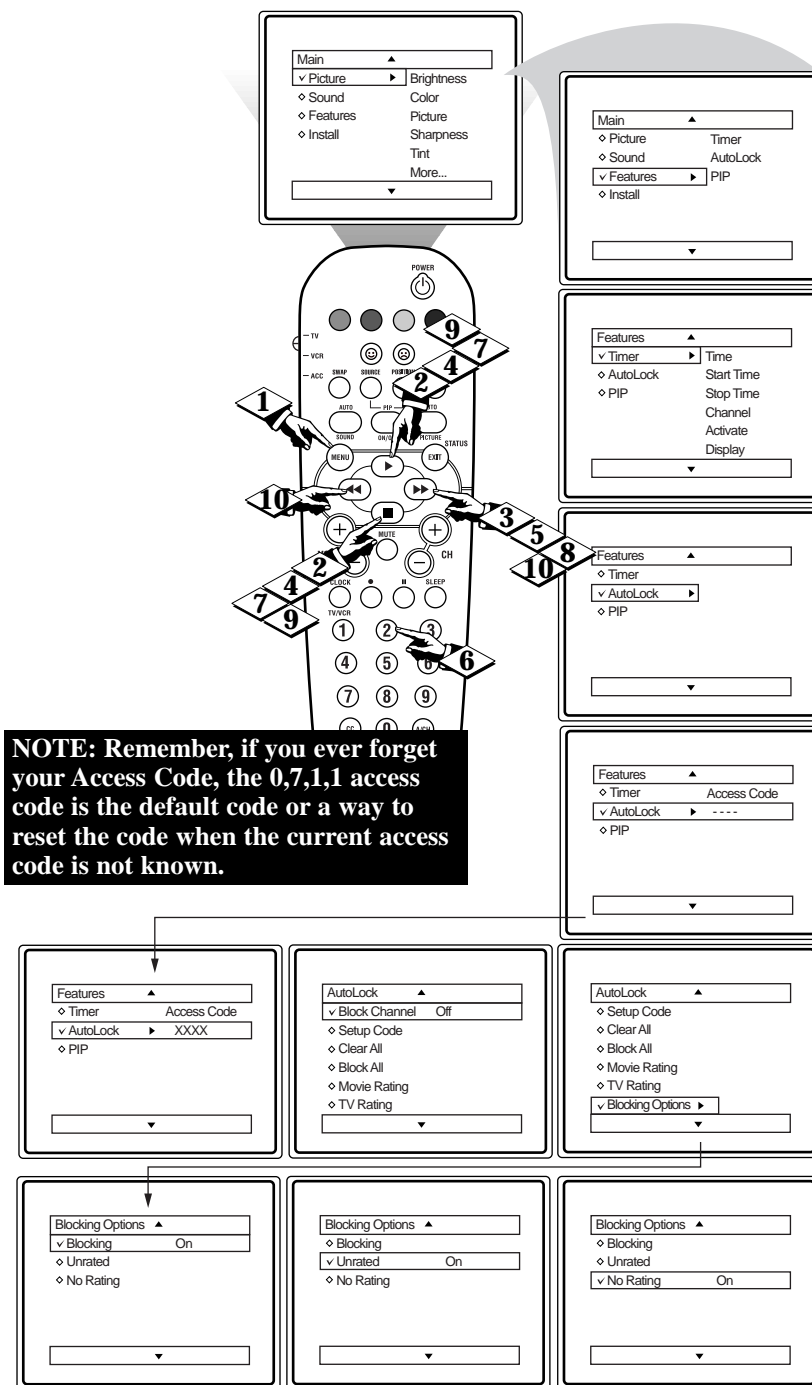
USING THE AUTOLOCK BLOCKING OPTIONS



AutoLock offers the viewer other blocking features as well. With these Blocking Options, the censoring can be turned ON or OFF.

BEGIN

- 1 Press the **MENU** button on the remote to show the on-screen menu.
- 2 Press the **CURSOR UP** or **DOWN** button until the word **FEA-****TURES** is highlighted.
- 3 Press the **CURSOR RIGHT** button to display the **FEATURES** menu options.
- 4 Press the **CURSOR UP** or **DOWN** button until the words **AutoLock** are highlighted.
- 5 Press the **CURSOR RIGHT** button.
- 6 Enter the correct access code number. "XXXX" shows on the Access Code display as you press the **NUMBERED** buttons. AutoLock menu options will be displayed.
- 7 Press the **CURSOR UP** or **DOWN** buttons until the words **BLOCKING OPTIONS** are highlighted.
- 8 Press the **CURSOR RIGHT** button to display the **Blocking Options (BLOCKING, UNRATED, or NO RATING)** menu.
- 9 Press the **CURSOR UP** or **DOWN** buttons to highlight the desired feature.
- 10 When highlighted, each feature can be turned **ON** or **OFF** using the **CURSOR RIGHT** or **LEFT** buttons on the remote.



BLOCKING OPTIONS:

BLOCKING: This is what might be called the "master switch" for AutoLock. When in the ON position, ALL blocking/censoring will take place. When in the OFF position, ALL blocking is disabled.

UNRATED: ALL unrated programs based on the Movie Ratings or Parental (TV) Guidelines can be blocked if this feature is set to ON and the **BLOCKING** feature is set to OFF.

NO RATING: ALL programming with NO content advisory data can be blocked if this feature is set to ON and the **BLOCKING** feature is set to OFF.



HOW TO USE THE CLOSED CAPTION CONTROL


Closed Captioning (CC) allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, this feature uses on-screen "text boxes" to show dialogue and conversations while the TV program is in progress.

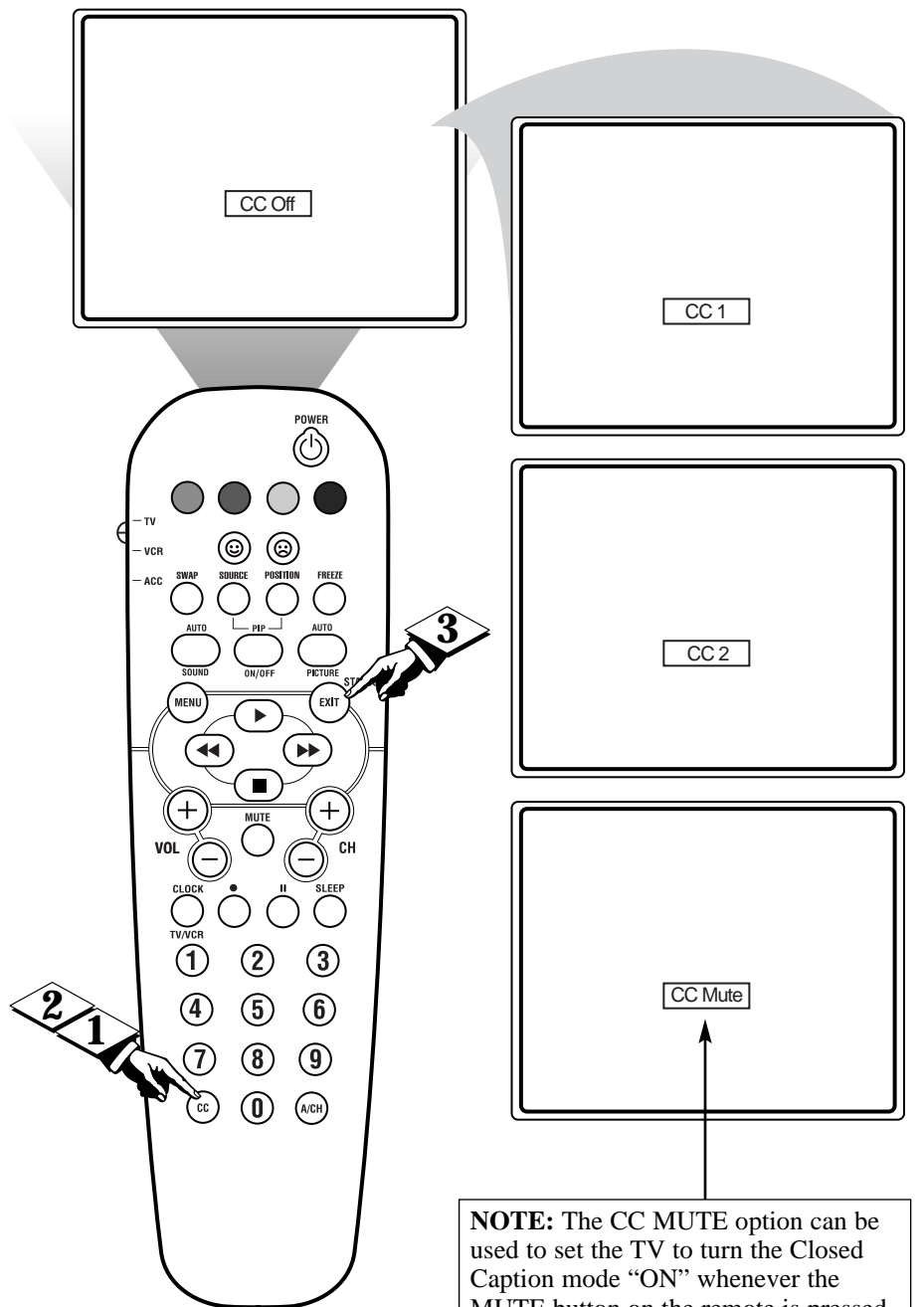
BEGIN

- 1 Press the **CC button** on the remote to display the current Closed Caption setting.
- 2 Press the **CC button repeatedly** to choose from the four Closed Caption options (CC Off, CC 1, CC 2, CC Mute). Dialogue (and descriptions) for the action on the captioned TV program will appear on-screen if the tuned program is broadcasting CC information.
- 3 When finished, press the **STATUS /EXIT button** to remove the menu from the TV's screen or let the option time out and disappear from the TV screen.



SMART HELP

 **Not all TV programs and product commercials** are made with Closed Caption (CC) information included. Neither are all Closed Caption modes (CC1, or CC2) necessarily being used during the transmission of a closed caption program. Refer to your area's TV program listings for the stations and times of Closed Caption shows.



NOTE: The CC MUTE option can be used to set the TV to turn the Closed Caption mode "ON" whenever the MUTE button on the remote is pressed. This activates the CC1 option.

USING THE AUDIO/VIDEO INPUT JACKS

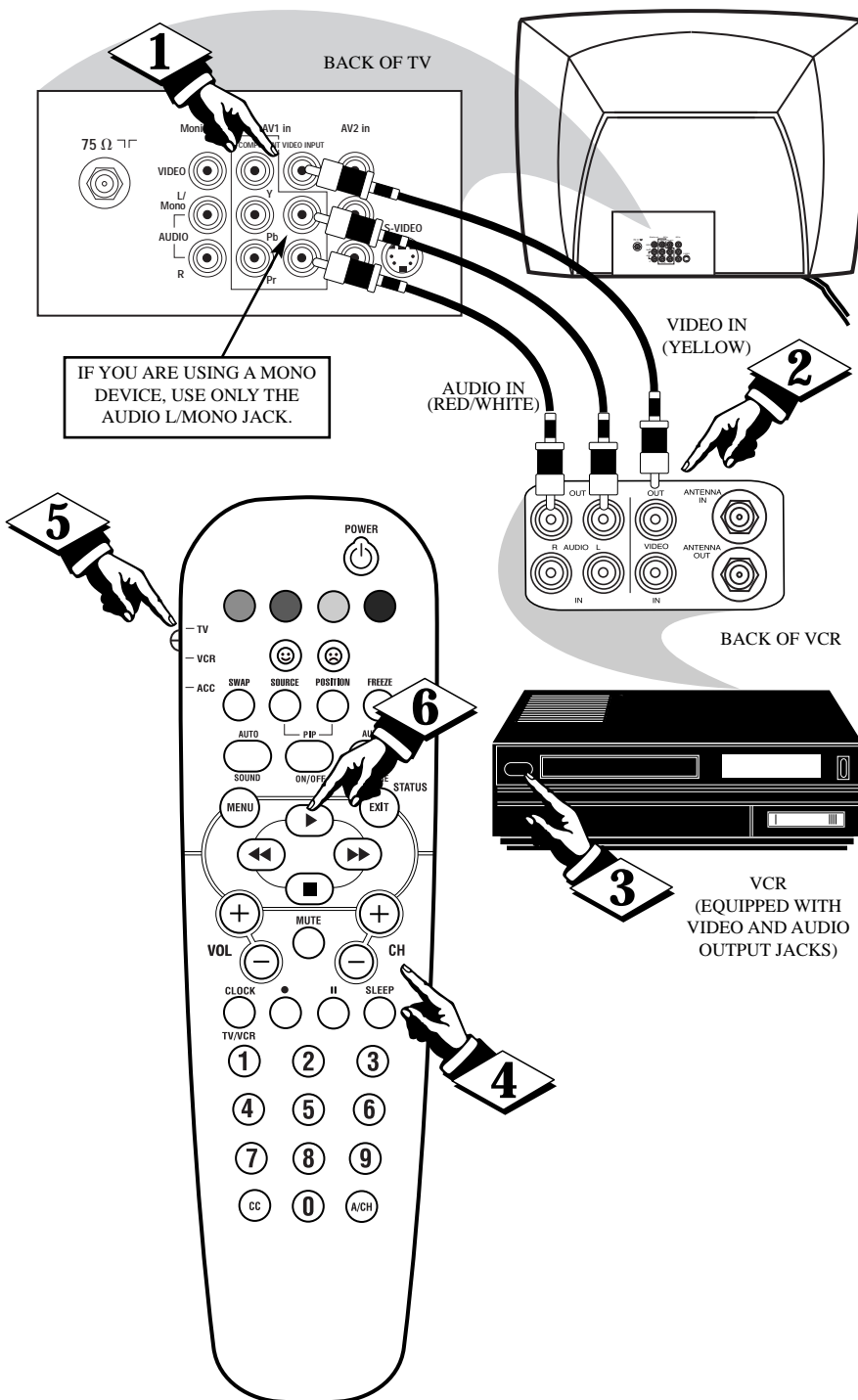


The TV's Audio/Video Input jacks are for direct picture and sound connections between the TV and a VCR (or similar accessory device) that has Audio/Video Output jacks.

BEGIN

- 1** Connect one end of the **VIDEO (yellow) CABLE** to the AV1 in VIDEO jack on the back of the TV. Then connect one end the **AUDIO (red and white) CABLES** to the AV1 in AUDIO L and R (left and right) jacks on the rear of the TV.
- 2** Connect other end of the **VIDEO (yellow) CABLE** to the VIDEO OUT jack on the back of the VCR. Then connect the other ends of the **AUDIO (red and white) CABLES** to the AUDIO (left and right) OUT jacks on the rear of the VCR.
- 3** Turn the **VCR and the TV ON**.
- 4** Press the **CH + or -** buttons on the remote to scroll the channels until **AV1** appears in the upper left corner of the TV screen.
- 5** Slide the **TV/VCR/ACC** switch to the **VCR** position.
- 6** Now your ready to place a prerecorded video tape in the VCR and **press the PLAY ► button**.

STOP





USING THE AUDIO/VIDEO (MONITOR) OUTPUT JACKS

The Audio/Video (Monitor) Output jacks are great for recording with a VCR or used to connect an external audio system for better sound reproduction.

BEGIN

1 For an external audio system, connect one end of the **R(ight) and L(ef) AUDIO (Monitor Out)** jacks on the TV to the R and L audio input jacks on your amplifier or sound system. Set the audio system's volume to a normal listening level.

2 Turn the TV and audio system **ON**. You can now adjust the sound level coming from the audio system with the **VOLUME (+) or (-)** button on the TV or remote control.

To connect a second VCR for recording:

3 Connect one end of the **yellow Video Cable** to the Monitor Out VIDEO plug. Connect the other end to the VIDEO IN plug on the second VCR.

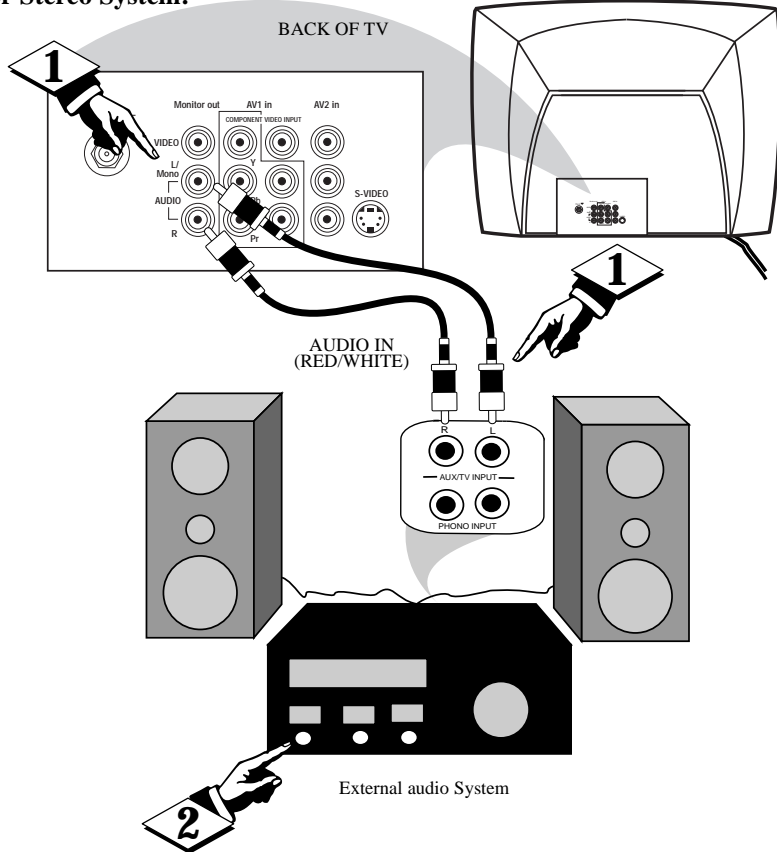
4 Connect one end of the **red and white Audio cable** from the Monitor Out AUDIO L and R plugs on the TV to the AUDIO IN plugs on the VCR.

5 Turn the VCR **ON**, insert a blank VHS tape and it's ready to record what's being viewed on the TV screen.

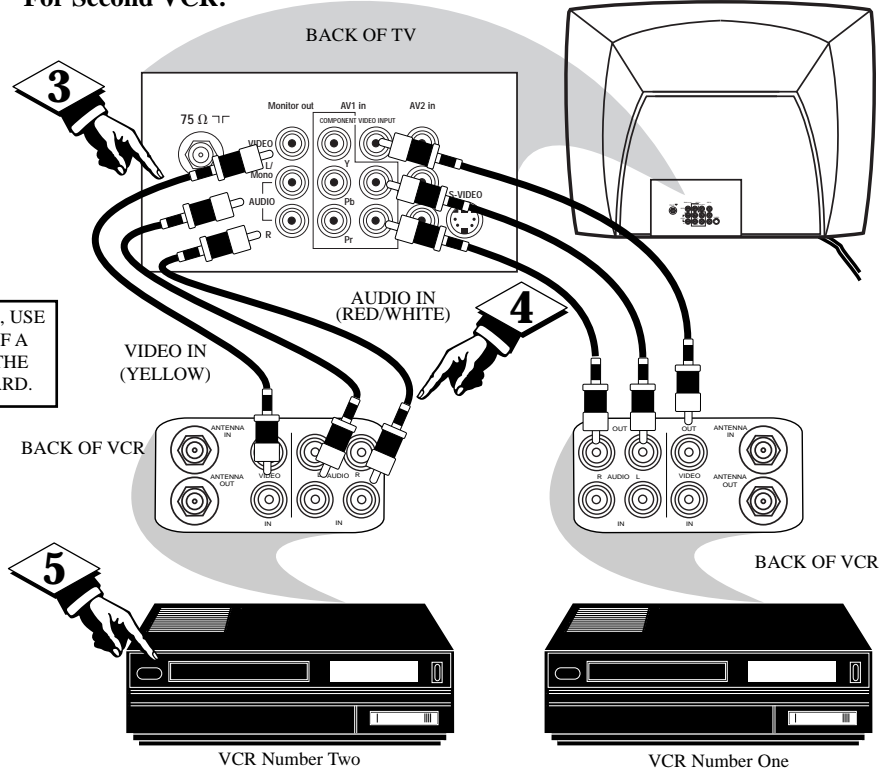
STOP

IF YOU ARE USING A MONO DEVICE, USE ONLY THE AUDIO L/MONO JACK. IF A DUMMY JACK IS PLUGGED INTO THE AUDIO R, NO SOUND WILL BE HEARD.

For Stereo System:



For Second VCR:



USING THE S-VIDEO INPUT JACKS



The S(uper)-Video connection on the rear of the TV can provide you with better picture detail and clarity for the playback of accessory sources such as DBS (digital broadcast satellite), DVD (digital video discs), video games, and S-VHS VCR (video cassette recorder) tapes than the normal antenna picture connections.

NOTE: The accessory device must have an S-VIDEO OUT(put) jack in order for you to complete the connection on this page.

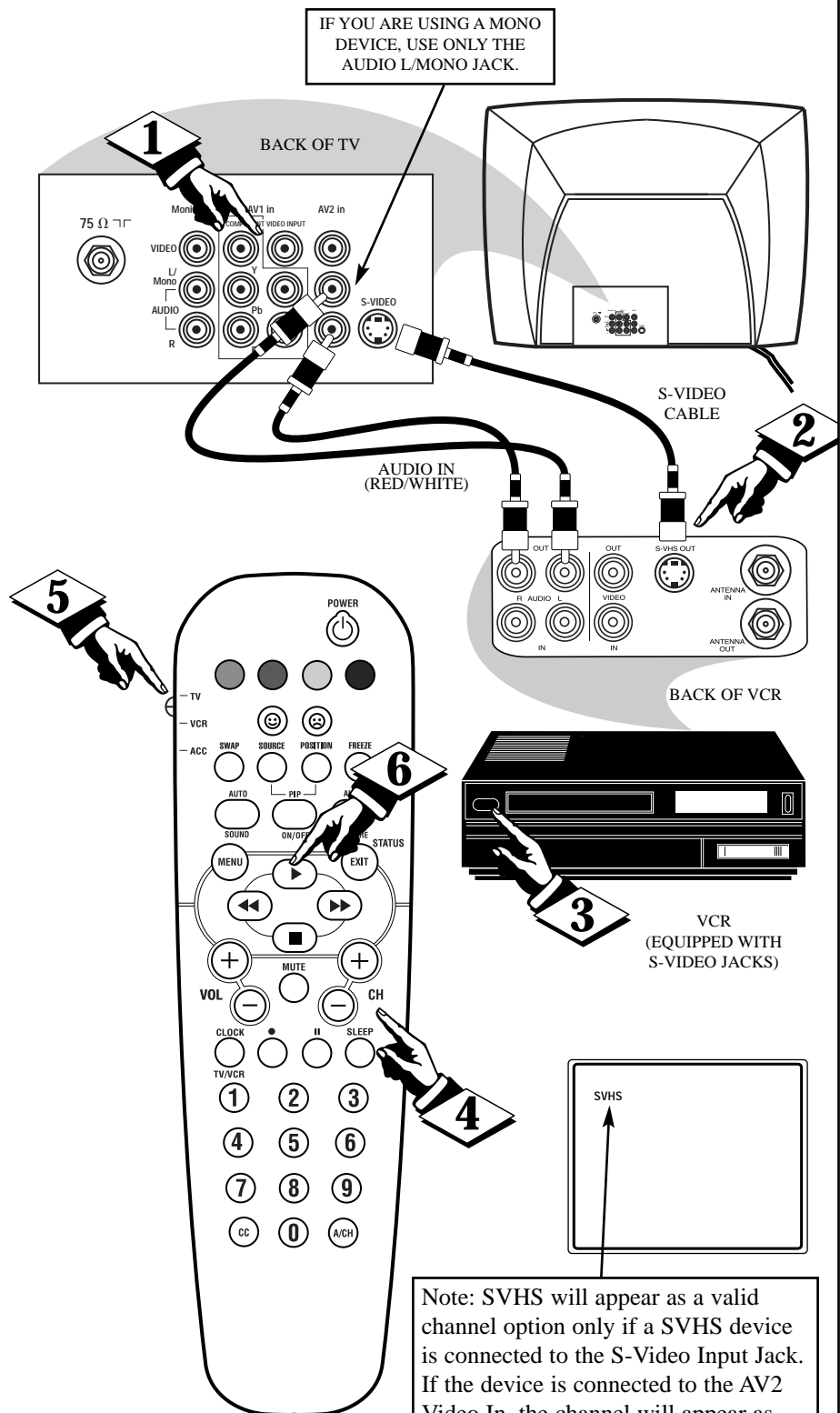
BEGIN

- 1 **Connect one end of the S-VIDEO CABLE** to the S-VIDEO jack on the back of the TV. Then connect one end of the AUDIO (red and white) CABLES to the AV2 in AUDIO L and R(left and right) jacks on the rear of the TV.
- 2 **Connect other end of the S-VIDEO CABLE** to the S-VIDEO OUT jack on the back of the VCR. Then connect the other ends of the AUDIO (red and white) CABLES to the AUDIO (left and right) OUT jacks on the rear of the VCR.
- 3 **Turn the VCR and the TV ON.**
- 4 **Press the CH + or - buttons** on the remote to scroll the channels until SVHS appears in the upper left corner of the TV screen.
- 5 **Slide the TV/VCR/ACC switch** to the VCR position.
- 6 **Now your ready to place a prerecorded video tape in the VCR and press the PLAY ► button.**



SMART HELP

The S-VIDEO and VIDEO AV2 in(puts) are in parallel. The S-VIDEO input is dominant when in use. If separate video signals are connected to the S-VIDEO and VIDEO AV2 in(puts), the signal from the VIDEO AV2 in(put) will not be usable.





USING THE COMPONENT VIDEO INPUT JACKS

Component Video inputs provide for the highest possible color and picture resolution in the playback of digital signal source material, such as with DVD players. The color difference signals (Pb, Pr) and the luminance (Y) signal are connected and received separately, which allows for improved color bandwidth information (not possible when using composite video or S-Video connections).

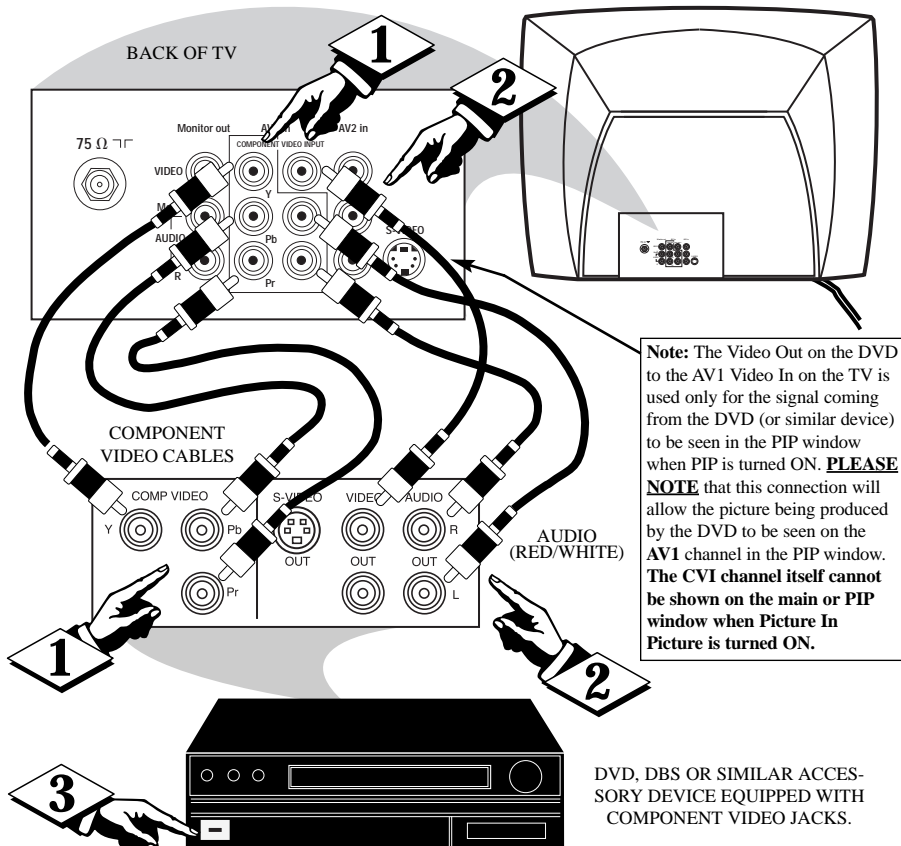
BEGIN

- 1 Connect the Component (Y, Pb, Pr) Video OUT jacks from the DVD player (or similar device) to the (Y, Pb, Pr) in(put) jacks on the TV.
- 2 Connect the red and white AUDIO CABLES to the Audio (left and right) output jacks and the yellow VIDEO CABLE to the Video Out jack on the rear of the accessory device to the Audio (L and R) and Video AV1 in(put) jacks on the TV.
- 3 Turn the TV and the DVD (or digital accessory device) ON.
- 4 Press the CH + or - buttons to scroll the available channels until CVI appears in the upper left corner of the TV screen.
- 5 Slide the TV/VCR/ACC Switch to the ACC position.
- 6 Insert a DVD disc into the DVD player and press the PLAY ► button on the remote.

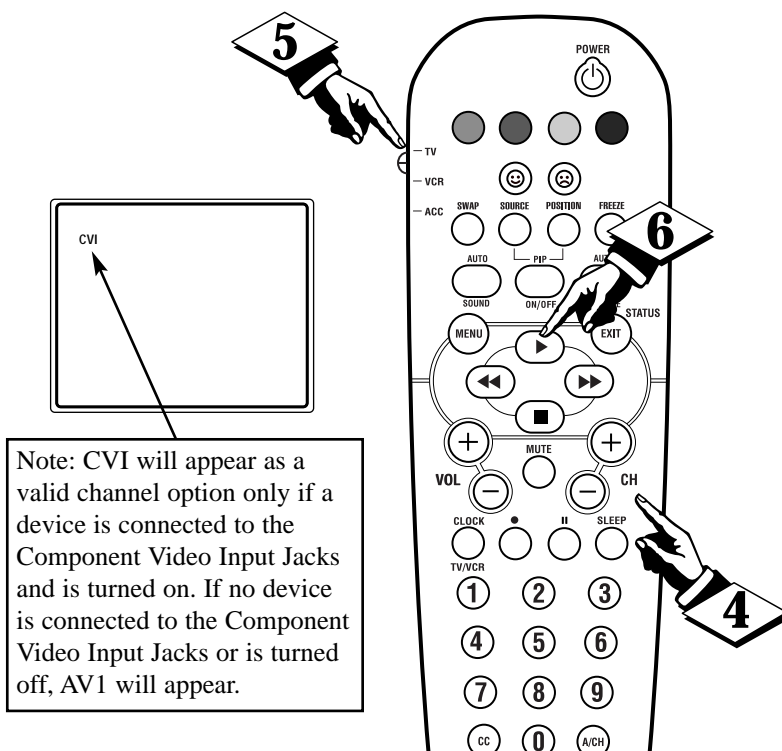
STOP

SMART HELP

The description for the component video connectors may differ depending on the DVD player or accessory digital source equipment used (for example, Y, Pb, Pr; Y, B-Y, R-Y; Y, Cr, Cb). Although abbreviations and terms may vary, the letters *b* and *r* stand for the blue and red color component signal connectors, and *Y* indicates the luminance signal. Refer to your DVD or digital accessory owner's manual for definitions and connection details.



DVD, DBS OR SIMILAR ACCESSORY DEVICE EQUIPPED WITH COMPONENT VIDEO JACKS.



Note: CVI will appear as a valid channel option only if a device is connected to the Component Video Input Jacks and is turned on. If no device is connected to the Component Video Input Jacks or is turned off, AV1 will appear.

USING THE SIDE INPUT JACKS AND THE HEADPHONE JACK

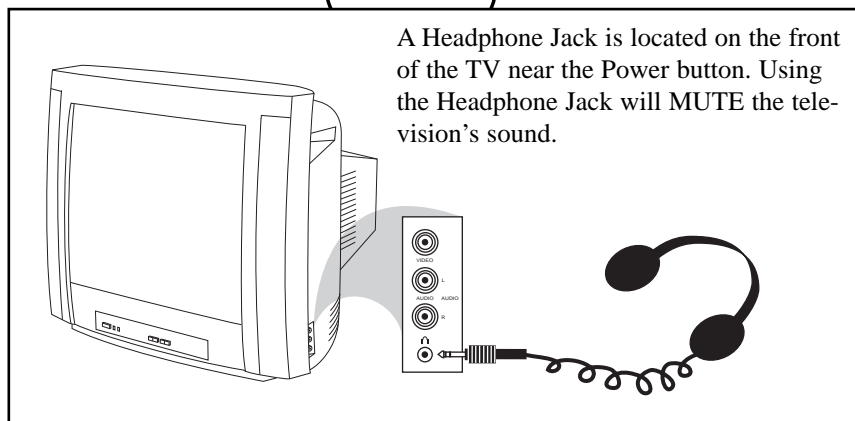
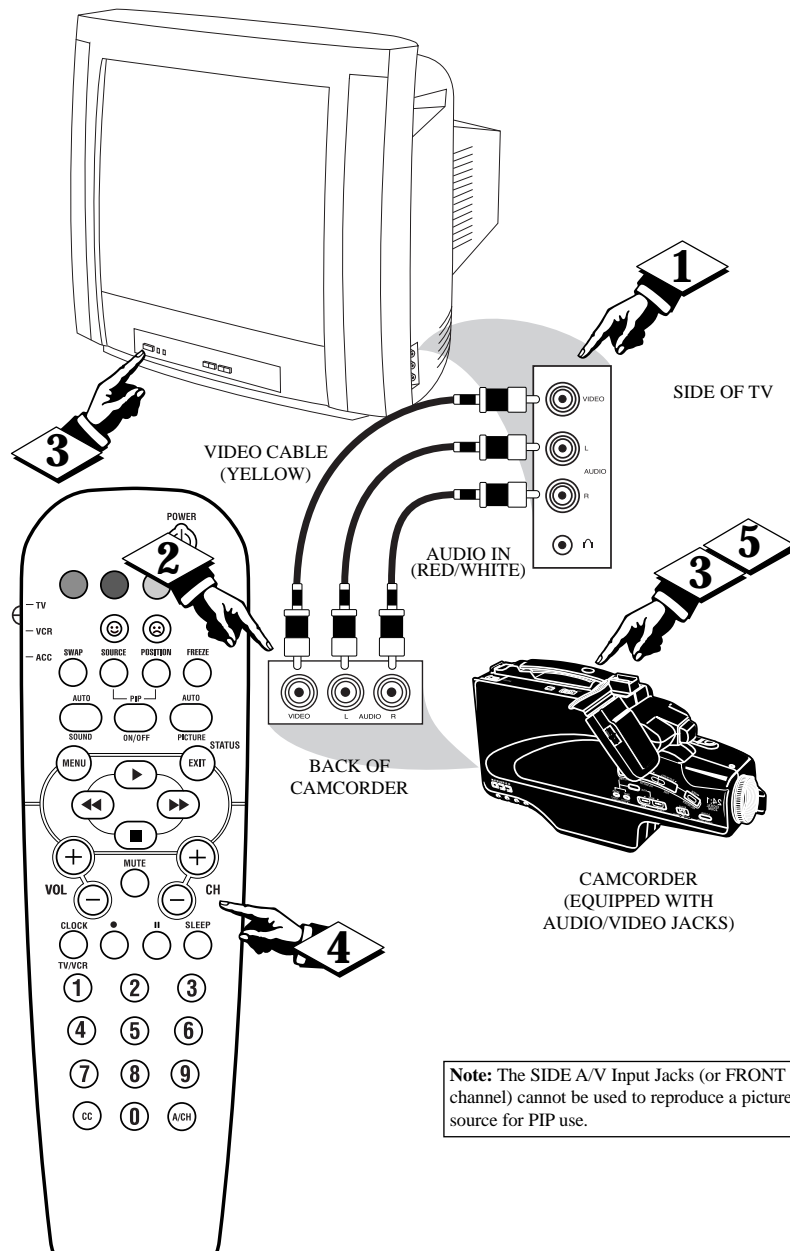


For your convenience, Audio/Video Input jacks have been located on the side of the TV cabinet. These jacks are for use with camcorders or rental devices that are only to be connected for a short period of time. There also is a headphone jack located on the side of the TV when you're wanting to watch TV while others in the room do not.

BEGIN

- 1** Connect one end of the yellow VIDEO CABLE to the Side VIDEO jack on the side of the TV. Then connect one end the AUDIO (red and white) CABLES to the Side AUDIO L and R(left and right) jacks on the side of the TV.
- 2** Connect other end of the yellow VIDEO CABLE to the VIDEO OUT jack on the back of the camcorder. Then connect the other ends of the AUDIO (red and white) CABLES to the AUDIO (left and right) OUT jacks on the rear of the camcorder.
- 3** Turn the camcorder and the TV ON.
- 4** Press the CH + or - buttons on the remote to scroll the channels until "FRONT" appears in the upper left corner of the TV screen.
- 5** Now your ready to place a prerecorded video tape in the camcorder and press its PLAY ► button.

STOP





SETTING UP THE SLEEPTIMER OPTION

Have you ever fallen asleep in front of the TV only to have it wake you up at two in the morning with a test pattern screeching in your ears? Well, your TV can save you all that trouble by automatically turning itself off.

BEGIN

1 Press the **SLEEP** button on the remote control and the SLEEP timer display will appear on the screen.

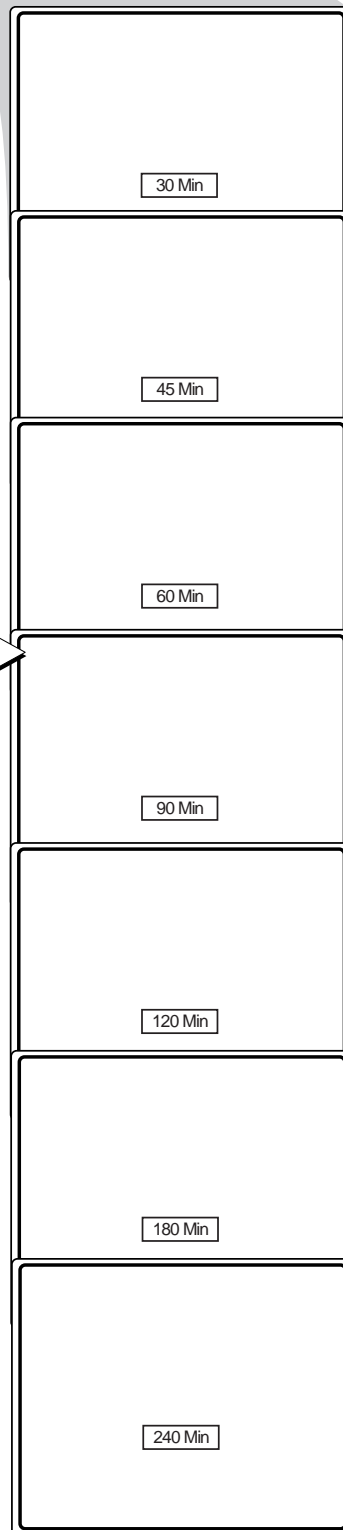
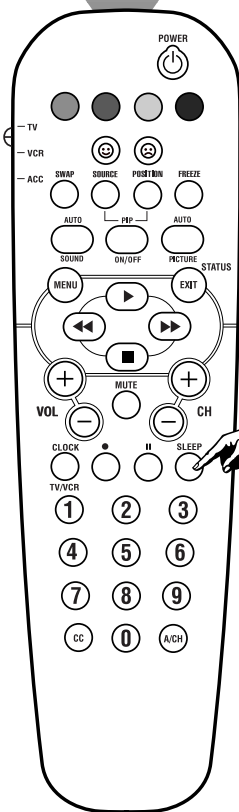
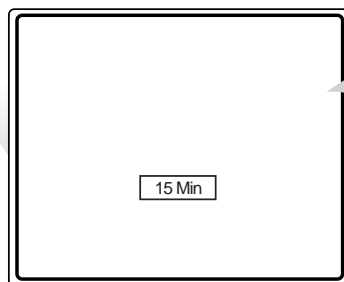
2 Press the **SLEEP** button repeatedly to pick the amount of time (15, 30, 45, 60, 90, 120, 180, or 240 minutes) before the TV will turn itself off.

An on-screen count down will appear during the last minute before the TV shuts itself off.

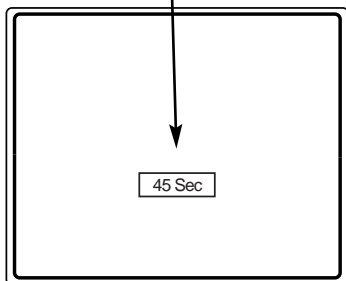


SMART HELP

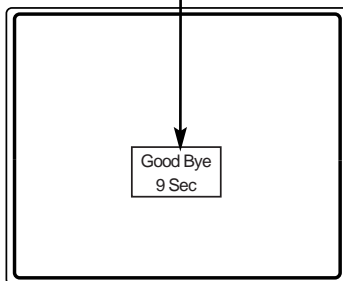
The on-screen menu will time out and disappear from the screen when you finish, or you can press the **STATUS/EXIT** button to clear the menu from the screen.



During the last minute of a SLEEP timer setting, an on-screen count down will be displayed. Pressing any button during the last minute will cancel the SLEEP timer.



During the last 10 seconds of a SLEEP timer setting, an on-screen display will read **GOOD BYE**.



SETTING THE AUTO PICTURE CONTROL



Whether you're watching a movie or a sporting event, your TV has automatic video control settings matched for your current program source or content. The Auto Picture feature quickly resets your TV's video controls for a number of different types of programs and viewing conditions you may have in your home. Each Auto Picture setting is preset at the factory to automatically adjust the TV's Brightness, Color, Picture, Sharpness, Tint, Color Temperature, DNR and Contrast+ levels.

BEGIN

1 Press the **AUTO PICTURE** button on the remote control. The current Auto Picture setting will appear in the middle of the screen.

2 Press the **AUTO PICTURE** button repeatedly to select either **PERSONAL**, **MOVIES**, **SPORTS**, **WEAK SIGNAL**, or **MULTI MEDIA** picture settings.

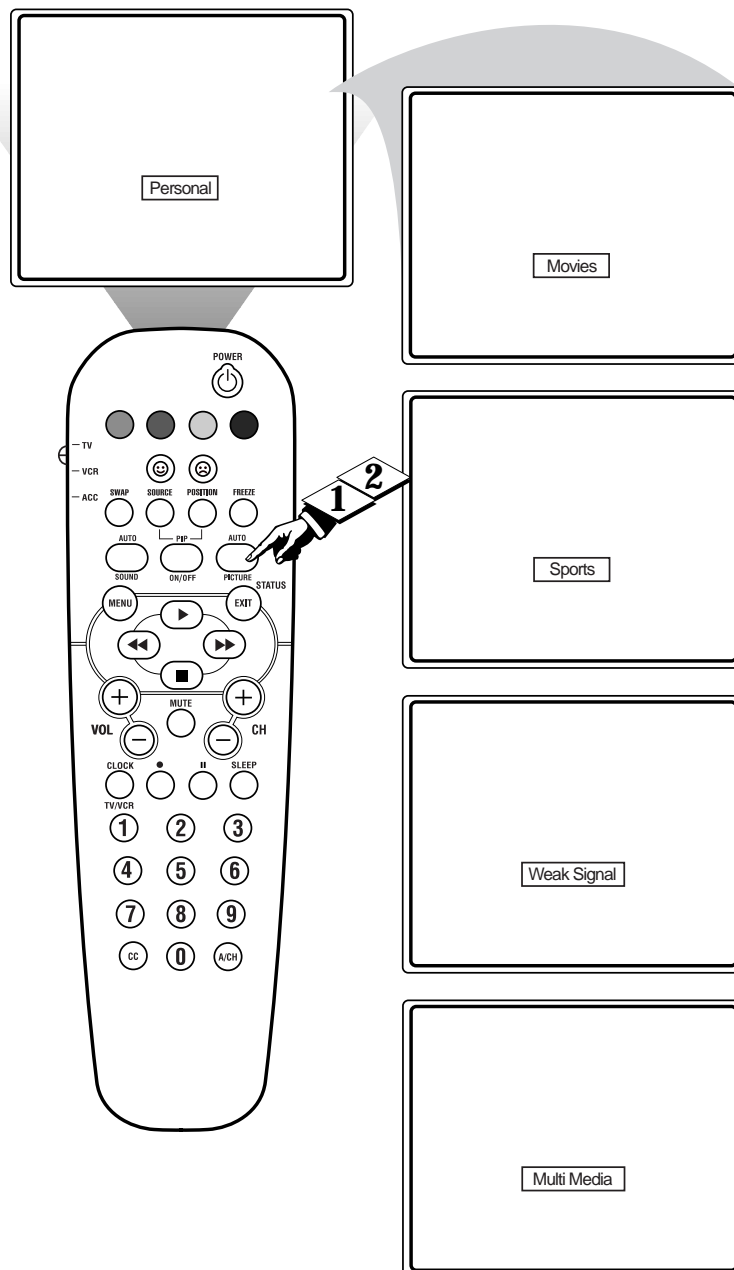
Note: The **PERSONAL** setting is the setting that you setup using the **PICTURE** options within the on-screen menu. This is the only Auto Picture setting that can be changed. All other settings are setup at the factory during the time of production.

MOVIES - Preset picture options for watching Video Tapes, or DVDs.

SPORTS - Preset picture options for watching sporting events.

WEAK SIGNAL - Preset picture options for watching programs where the reception is not at its best.

MULTI MEDIA - Preset picture options for use with video gaming.





SETTING THE AUTO SOUND CONTROL

The Auto Sound feature allows the listener to select between four different factory set sound options. Personal (which can be set by the user), Theatre (for movie viewing), Music (for musical type programming) and Voice (when the program is mainly dialogue). These settings affect the Sound menu's Bass, Treble, AVL, and Incredible Surround controls

To select any of the options follow the directions below.

BEGIN

1 Press the **AUTO SOUND** button on the remote control. The current Auto Sound setting will appear in the middle of the screen.

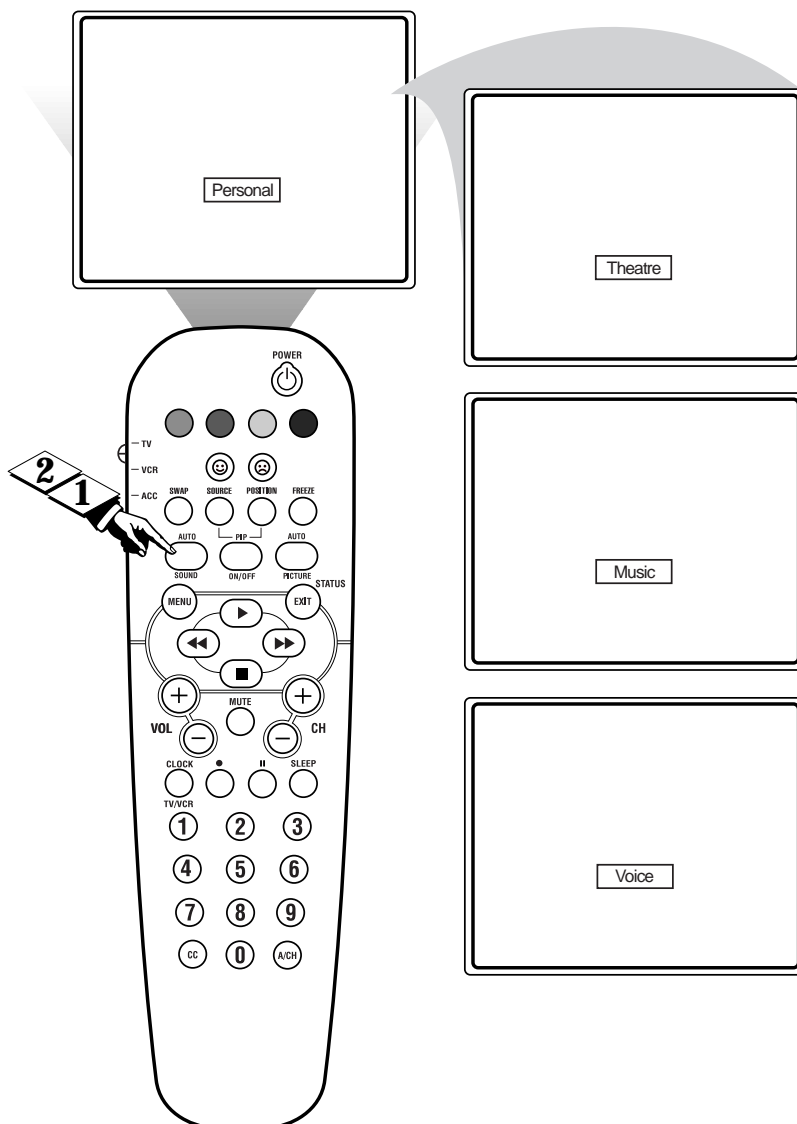
2 Press the **AUTO SOUND** button repeatedly to toggle between the four settings.

Note: Only the **PERSONAL** control can be changed by the viewer. This changes the settings in the main on-screen menu's sound controls.

THEATRE - Preset sound options for watching movies.

MUSIC - Preset sound options for musical programming where there is little dialogue.

VOICE - Preset sound options for programming where heavy dialogue is present.



USING THE QUADRA SURF BUTTONS



A “list” or series of previously viewed channels can be selected with the Quadra SURF (colored) buttons on your remote control. With this feature you can easily switch between different TV programs that currently interest you. The Quadra Surf control allows you set up four different personal Surf lists using the colored buttons (on the remote control), each holding up to ten channels in its quick viewing “list.”

BEGIN

1 Press the CHANNEL (+) or (–) buttons (or the NUMBER buttons) to select a channel to add to one of the SURF lists.

2 Press the SMILEY ☺ button on the remote control to ADD the channel to one of the SURF lists.

3 Press the corresponding COLORED (Red, Green, Yellow or Blue) button to add the channel to that button’s Surf list. (Up to ten channels per button can be stored.)

Repeat steps 1 through 3 to add additional channels (up to 10) to each of the SURF lists.

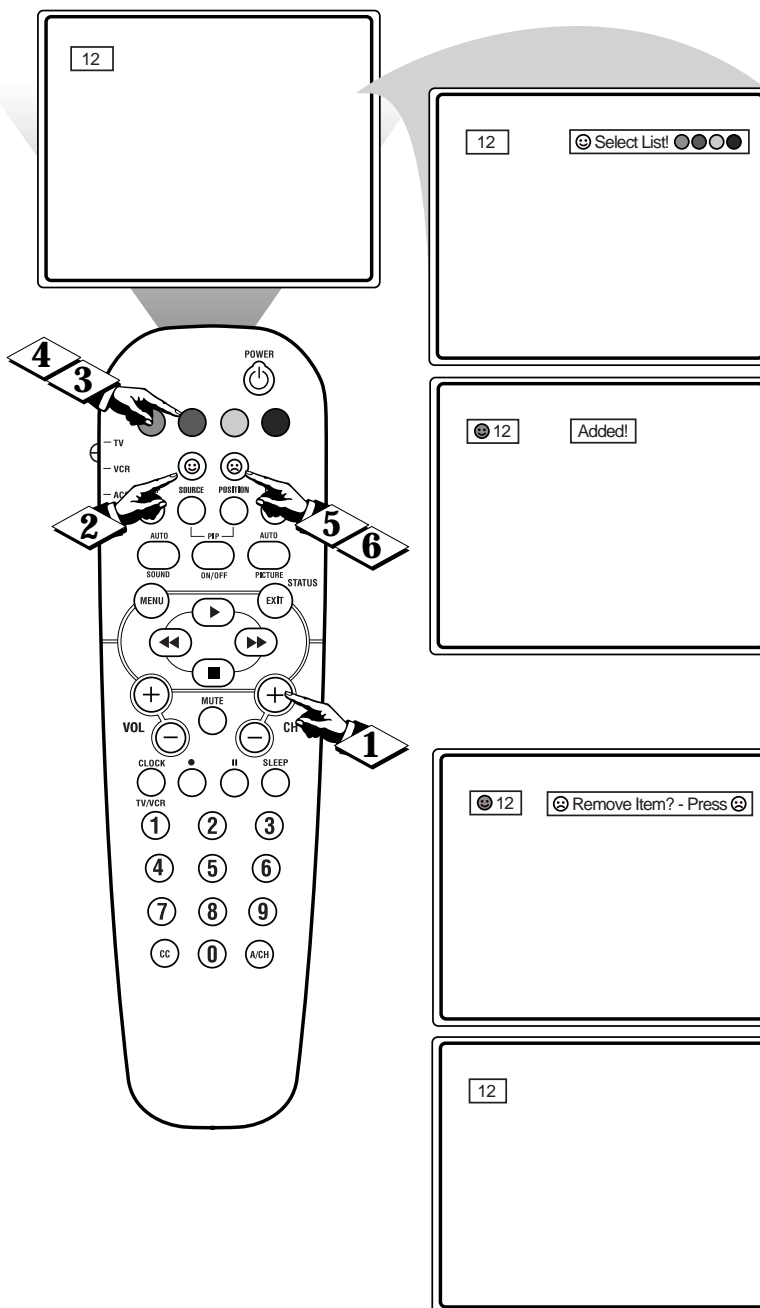
To remove a channel from one of the SURF lists;

4 Press the COLORED Quadra Surf button until the desired channel appears. The screen will display the channel number with a colored “Smiley” face to indicate the Colored button it relates to.

5 While the “Smiley” face channel indicator is displayed, press the FROWNIE ☹ face button. The screen will read, “Remove item? - Press ☹ .”

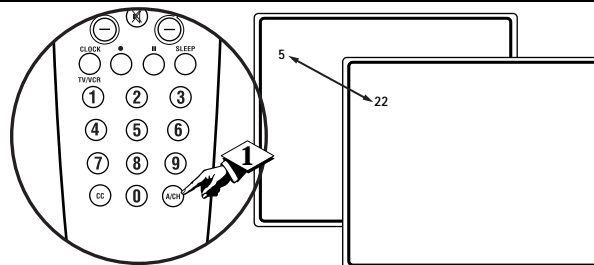
6 Press the FROWNIE ☹ face button again to confirm your decision to remove the channel from the Surf list.

Repeat steps 4-6 to remove other channels from Surf lists.



A/CH BUTTON

Your remote also has an A/CH (Alternate Channel) button. Pressing this button will toggle between the Current and one previously selected channel.





USING THE QUADRA SURF BUTTONS

The Quadra Surf buttons on your remote control allow you to store up to 10 channels per button (40 total). This is a great feature if you want to store all your favorite Sports channels, Movie channels, or News channels in one surf list. Family members can have their own favorite list of channels. You can even program the A/V Input channels (AV1, AV2, SVHS, FRONT, etc.) for each button making them a "source" button for your external accessory devices.

Assuming channels have now been added to the four Quadra Surf lists (the four colored buttons on the remote, see the previous page), let's review how the feature works.

BEGIN

1 Press one of the pre-programmed **COLORED** buttons on the remote (Red, Green, Yellow or Blue). The screen will display a smiley face with the first programmed channel for that surf list.

2 While the colored "smiley" face still appears on the screen, press the same **COLORED** button on the remote to tune the second channel programmed for that specific surf list.

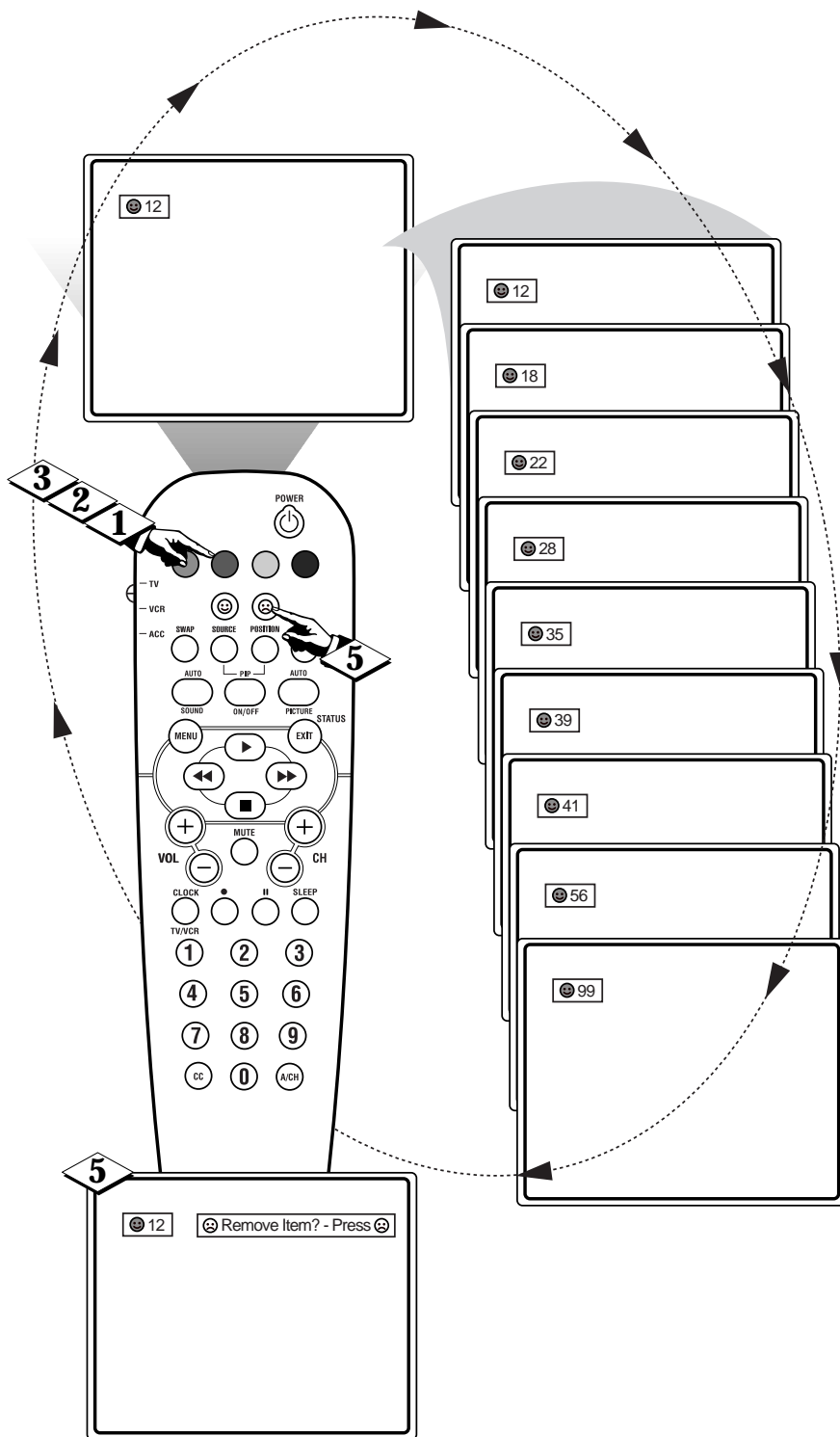
3 Repeatedly pressing the same **COLORED** button while the "smiley" face appears will tune all the programmed channels for that specific surf list. After the last channel is tuned, pressing the **COLORED** button again will return you to the first channel in the list.

If the "smiley" face disappears from the screen and the same **COLORED** button is pressed, the surf channels will be displayed starting with the **FIRST** programmed channel again.

4 Repeat steps 1-3 for the other three **COLORED** buttons (Surf lists) if desired.

5 Any time the "smiley" face appears with the channel number, **pressing the "frownie" face button** will allow you to remove it from the list (see the previous page for more details).

STOP



REMOTE USE WITH ACCESSORY DEVICES - DIRECT METHOD



Your remote control is set to work your TV and many infrared remote (IR) control VCRs, Cable Boxes, Satellite Systems, DBS, DVD, etc. However, an easy onetime step may be necessary before the remote will work your VCR.

Try this initial Direct Access Method to see if going on to the following section is necessary.

BEGIN

1 Place the TV/VCR/ACC Mode Switch in the proper position.

2 Point the remote control at the device and press the POWER button.

Does the remote turn the device ON?

If YES, stop and try other function buttons on the remote. If they also work the device, then the remote is ready and no further steps are needed.

If NO, continue...



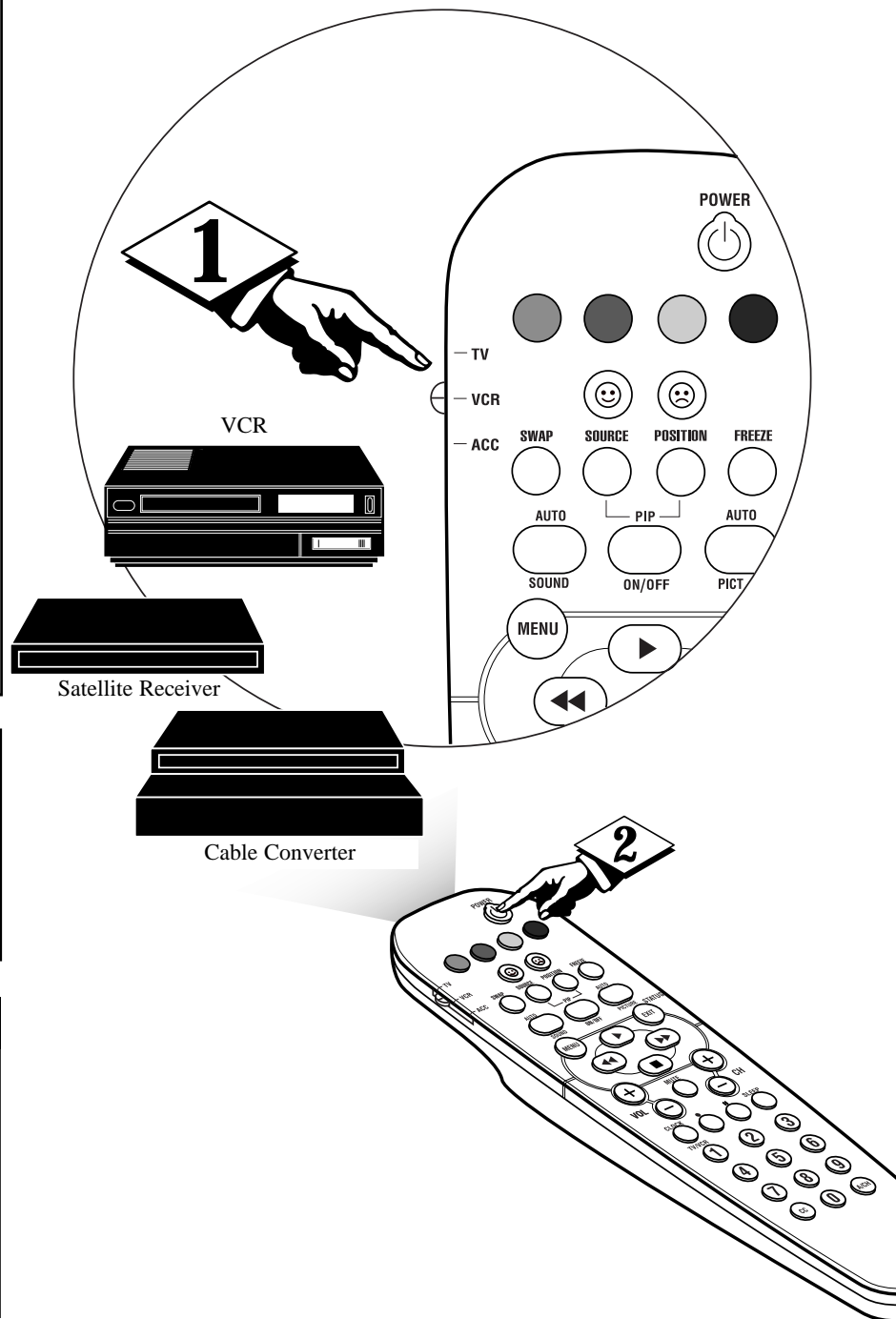
1 First look up a **THREE-DIGIT remote control number** for your brand of Device before going through the simple steps on the following page.

Find your Three-Digit Code on pages 36-38.

SMART HELP

Remember, if more than one number is listed, you may have to try more than the first Three-Digit code given in order to locate your Device's remote code.

NOTE: Setting up the remote is for use with external accessory devices only and not for use with other television brands.





REMOTE USE WITH ACCESSORY DEVICES - CODE ENTRY METHOD

Now that you have looked up the three-digit Remote Code Number for your brand of device, you are ready to follow the four simple steps below.

Please read through steps 1-4 before beginning.

BEGIN

- 1 Place the TV/VCR/ACC Mode Switch in the proper position.
- 2 Press the VCR • RECORD button on the remote control and release.
- 3 Press the AUTO SOUND button on the remote within 30 seconds, then release.
- 4 Enter the THREE-DIGIT REMOTE CODE NUMBER for your desired device. The remote is now ready to send commands to the unit.
- 5 Point the remote at the Device. Press the POWER button on the remote to turn the unit ON.



SMART HELP

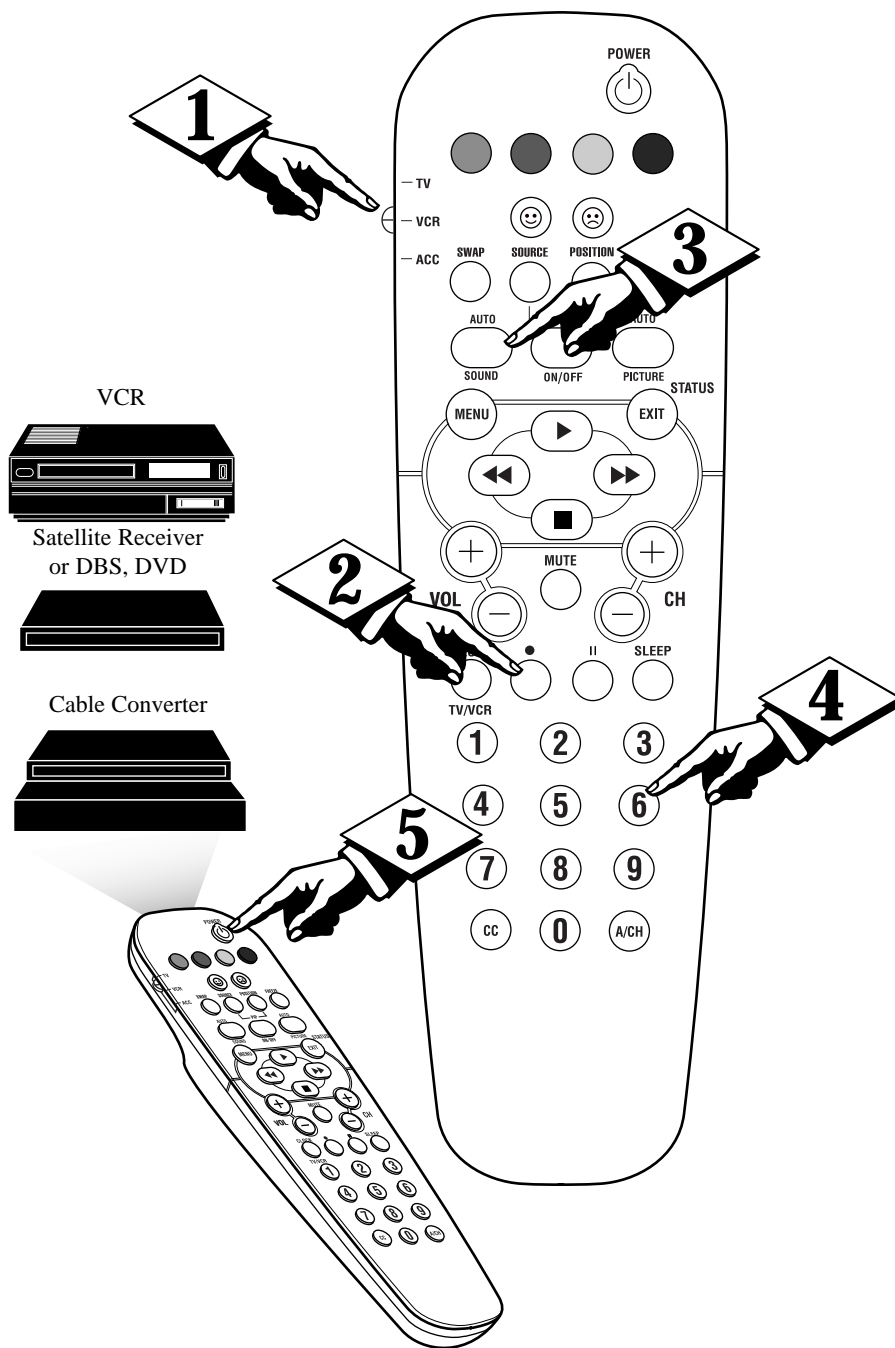


Remember, if this doesn't work the first time, repeat the steps using a different remote code number.

After a second try and the remote does not operate your device, see if there is another three-digit code number (pages 36-38) listed for your device and repeat the steps above using the new number.

If after repeated attempts the code number method does not work your device, try the **SEARCH METHOD** on the next page.

NOTE: Setting up the remote is for use with external accessory devices only and not for use with other television brands.



REMOTE USE WITH ACCESSORY DEVICES - SEARCH METHOD



Your TV remote can be set to work various external devices such as VCRs, Cable Boxes, Satellite Receivers, DBS, DVD, etc. by what is called the search method of remote control programming. This programming method can take a long time to perform so we recommend you use it as a last resort.

Please read all the steps below before beginning.

BEGIN

1 Press the **POWER** button on the device you are attempting to program to turn it ON.

2 If programming a VCR or DVD type product that has a **STOP** play command, place a VCR Tape or DVD disc into the device. Press the **PLAY** button on the chosen device.

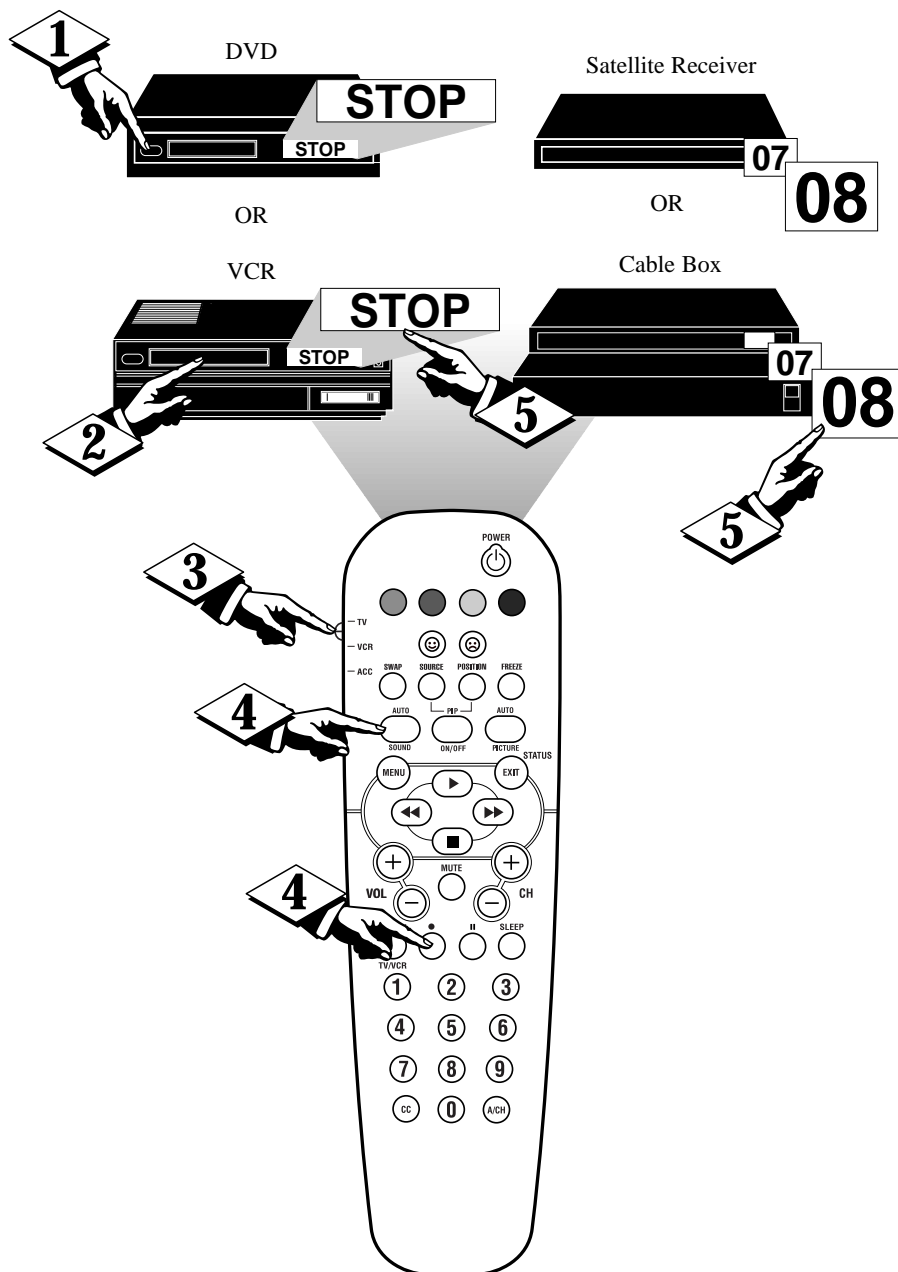
3 Place the **TV/VCR/ACC Mode Switch** in the proper position. TV for all television functions, VCR for programming Video Cassette Recorders or ACC for all other accessory devices.

4 Press the **VCR • RECORD** and the **AUTO SOUND** buttons simultaneously and hold them down.

As you continue to hold down the **VCR • RECORD** and the **AUTO SOUND** buttons, the remote will run through its programmed code list. It will send out a command for every code it has commanding the VCR or DVD to **STOP** play. For Cable Boxes and Satellite Receivers the command will be to **CHANGE CHANNELS**.

5 When the **STOP** command happens for VCRs or DVD type devices, **release the two buttons** and the remote should control the device.

For Cable Boxes and Satellite Receivers the channel indicator will change. As soon as the channel changes **ONCE**, **IMMEDIATELY release the two buttons**. The remote should now control the devices. If the two buttons are held longer than the one channel change, the process will have to be repeated. This method can take up to 12 and a half minutes to perform.



NOTE: Setting up the remote is for use with external accessory devices only and not for use with other television brands.



REMOTE CONTROL DIRECT ENTRY CODES

CABLE BOX	CODE NUMBERS	CABLE BOX	CODE NUMBERS	SATELLITE	CODE NUMBERS
ABC	.028, 030, 034, 035, .038, 040, 041, 044, 060	Popular Mechanics	.427	Astra	.135
Allegro	.180, 342	Prelude	.797	Astro	.200, 528
Andover	.571	Pulsar	.027	Avalon	.423
Antronix	.049, 234	Quasar	.027	Axis	.396
Archer	.049, 066, 180, 234, 824	RCA	.048	BT	.542, 695
BBT	.294	Radio Shack	.042, 342, 824	Beko	.216
Belcor	.083	Realistic	.234	Best	.396
Bell & Howell	.041	Recoton	.427	Blaupunkt	.200
Birmingham Cable Communications	.303	Regal	.047, 286, 300	Boca	.270, 540
British Telecom	.030, 132	Regency	.029	Bush	.094
Cable Star	.083	Rembrandt	.038, 097	Cambridge	.371, 542
Cabletenna	.049	Runco	.027	Channel Master	.389
Cabletime	.188, 298, 404, 475	SL Marx	.067	CommLink	.315
Cableview	.049	STS	.183	Connexions	.423
Century	.180	Salora	.409	Conrad	.634
Citizen	.180, 342	Samsung	.067, 171	Crown	.270
Clyde	.113	Satbox	.402	Cyrus	.227
Colour Voice	.052, 058	Scientific Atlanta	.033, 035, 044, .304, 504, 904	DDC	.389
Comband	.259	Seam	.537	DNT	.227, 423
Comtec	.301	Signal	.042, 067	Echostar	.423, 740, 802, 897
Comtronics	.067, 087	Signature	.038	Emanon	.448
Contec	.046	Sprucer	.048	Expressvu	.802
Cryptovision	.627	StarSight	.449, 569	Ferguson	.094, 210, 216, 363
Decsat	.450	Starcom	.030, 042	Fidelity	.279
Digi	.664	Stargate	.042, 067, 797, 824	Finlux	.135, 371, 424, 482
Eastern	.029, 301	Starquest	.042	Freecom	.448
Emerson	.824	Sylvania	.028	Fuba	.396, 423, 448
Everquest	.042, 067	TFC	.337	G-Sat	.210
Filmnet	.470	TV86	.090	Galaxis	.315
Focus	.427	Tadiran	.067	General Instrument	.388, 654, 896
France Telecom	.478	Tandy	.285	Gooding	.598
GC Electronics	.083, 234	Tele+1	.470	Goodmans	.216
GE	.259	TeleCaption	.248	Grundig	.200, 216, 598, 777
GEC	.113	Teleservice	.308	HTS	.802
Garrard	.180	Teleview	.067	Hinari	.210
Gemini	.042, 097, 269, 824	Texscan	.028	Hirschmann	.200, 423, 424, 528, 600
General Instrument	.038, 303, 503	Timeless	.301, 445	Hitachi	.482, 846
GoldStar	.067, 171	Tocom	.039, 040, 086	Houston	.695
Goodmind	.824	Toshiba	.027	Hughes Network Systems	.776
Grundig	.556	Tudi	.313	Huth	.247, 270, 315
Hamlin	.036, 047, 061, 286, 300	Tusa	.042	IRTE	.636
Hitachi	.038	Unika	.049, 180, 234	ITT	.135
Hytex	.034	United Artists	.034	Intervision	.619
Jasco	.042, 180, 342	United Cable	.030	JVC	.542, 598, 802
Jerrold	.030, 038, 039, 041, .042, 051, 303, 503	Universal	.049, 066, 083, 180, 218, 234	Jerrold	.388, 654
Linsay	.467	Viewstar	.054, 087, 090, 285	Kathrein	.119, 200, 227, 469, 531, 649, 685
MNet	.046, 470	VisiCable+	.508	Kreiselmeier	.200
Macom	.060	Westminster	.132	Kyostar	.448
Magnavox	.054, 059	Zenith	.027, 081, 552	La Sat	.540, 634
Memorex	.027	Zentek	.427	Lenco	.448
Movie Time	.090, 183			Lennox	.619
NSC	.090, 097, 183			Lupus	.396
Novaplex	.645			Luxor	.135, 600
Oak	.034, 046			Magnavox	.749, 751
Optimus	.048			Manhattan	.482, 619
PVP Stereo Visual Matrix	.030			Marantz	.227
Panasonic	.027, 048, 134			Maspro	.119, 363, 777
Panther	.664			Matsui	.371, 598
Paragon	.027			Mediamarkt	.270
Philips	.052, 054, 058, 180, 269, 317			Memorex	.751
Pioneer	.050, 171, 560, 904			Minerva	.598
				Mintec	.605
				Morgan's	.270, 540

REMOTE CONTROL DIRECT ENTRY CODES



SATELLITE	CODE NUMBERS	VCR	CODE NUMBERS	VCR	CODE NUMBERS
Neuhaus	.247, 528	Action	.344	Elin	.078
Next Level	.896	Admiral	.075, 236	Emerex	.059
Nikko	.387, 740	Advantz	.383	Emerson	.027, 029, 063, 064, 070, .088, 095, 115, 148, 211, 235, 236, .238, 239, 305, 321, 322, 388, 506
Nokia	.135, 424, 482, 600	Adventura	.027	Ferguson	.068, 134, 347, 348
Nordmende	.389	Aiko	.305	Fidelity	.027
Orbitech	.528	Aiwa 027, 064, 334, 375, 379, 433, 463, 495		Finlandia	.108, 131, 137
Oxford	.371	Akai 068, 076, 080, 088, 133, 183, 269, 342		Finlux	.027, 069, 108, 131, 132
Pace	.094, 210, 363, 482, 818	Akiba	.099	Firstline	.064, 070, 072, 099, 236
Palladium	.598	Akura	.298	Fisher	.073, 074, 081, 093, 131
Palsat	.528	Alba .047, 099, 236, 305, 322, 342, 379		Frontech	.047
Panasonic	.728	Ambassador	.047	Fuji	.060, 062
Panda	.482	America Action	.305	Funai	.027
Patriot	.542	American High	.062	GE	.062, 075, 087, 092, 229, 267
Philips .227, 319, 482, 598, 749, 751, 777		Amstrad .027, 305, 352, 359		GEC	.108
Phonotrend	.315, 619	Anitech	.099	Garrard	.027
Plasmatic	.469	Asha	.267	General	.047, 079
Primestar	.388, 654	Asuka	.064	Go Video	.259, 306, 377, 459
Promax	.482	Audiovox	.064	GoldHand	.099
Prosat	.315	Baird .027, 068, 131, 134		GoldStar .045, 064, 065, 252, 498, 507	
Quadral	.389, 655	Basic Line .047, 099, 305		Goodmans 027, 047, 064, 089, 099, 305, 430	
RCA .170, 419, 593, 882		Beaumarck	.267	Gradiente	.027, 035, 435
RFT .227, 247, 315		Bell & Howell	.131	Graetz	.068, 131, 267
Radio Shack	.896	Blaupunkt .030, 033, 061, 181, .189, 222, 253, 254, 430		Granada	.073, 108, 131
Radiola	.227	Blue Sky	.305	Grandin	.027, 064, 099
Radix	.423	Brandt	.214, 347, 348	Grundig .030, 033, 034, 099, 108, 222, .234, 253, 280, 374, 376, 405, 430	
SAT	.378, 488	Brandt Electronic	.068	HCM	.099
SEG	.396, 448	Broksonic .029, 148, 211, 236, .238, 322, 375, 388, 506		HI-Q	.074
SKY	.883	Bush .099, 236, 305, 379		Hanseatic	.064
SM Electronic	.740	CCE .099, 305		Harley Davidson	.027
Saba	.363	CGE .027		Harman/Kardon .065, 102, 108, 173, 188	
Sabre	.482	Calix	.064	Harwood	.095, 099
Salora	.135	Canon .062, 194		Headquarter	.073
SatPartner	.448	Capehart	.047	Hinari	.031, 099, 235, 267, 379
Satec	.210	Carver	.108, 173	Hitachi .027, 031, 068, 069, 092, .109, 132, 193, 262, 267, 319	
Schwaiger	.210, 531	Catron	.047	Hughes Network Systems	.069
Seemann	.423, 605, 653	Cimline	.099	Hypson	.099
Siemens	.200	Cineral	.305	ITT .068, 073, 131, 133, 267, 295, 411	
Skymaster	.315, 655, 740	Citizen .064, 305		ITV	.047, 064, 305
Sony	.666, 731	Clatronic	.047	Imperial	.027
Star Choice	.896	Colt	.099	Ingersol	.031
Star Trak	.448	Combitech	.379	Interfunk	.108
Strong	.448	Condor	.047	JVC .035, 068, 094, 233, 234, 411, 513	
Sunstar	.540	Craig .064, 074, 099, 267, 298		Jensen	.068
Tantec	.363, 482	Crown .047, 099, 305		KEC	.064, 305
TechniSat	.289, 528	Curtis Mathes .062, 068, 087, 189		KLH	.099
Telefunken	.448	Cybernex	.078, 267	Kaisui	.099
Teleka	.270, 640	Cyrus	.108	Kendo	.133, 236
Thomson	.482	Daewoo .044, 047, 072, 114, 305		Kenwood .065, 068, 094, 411	
Tonna	.695	Dansai	.099	Kodak	.062, 064
Toshiba	.776, 817	Daytron	.047	Korpel	.099
Triad	.378	De Graaf .069, 193		LXI	.064
Triasat	.528	Decca .027, 108		Lenco	.305
Uniden	.749, 751	Denon	.069	Leyco	.099
Universon	.200, 598	Dual	.068	Lloyd's	.027, 235
VTech	.378	Dumont .027, 108, 131, 132		Loewe	.031, 033, 064, 108, 189
Ventana	.227	Dynatech	.027	Logik	.031, 099, 267
Vortec	.448	ESC	.267, 305	Luxor .070, 073, 075, 089, 131, 133	
Wisi	.200, 378, 423, 482	Elbe	.065	M Electronic	.027, 065
Zenith	.883	Elcatech	.099	MEI	.062
		Electrohome	.064		
		Electroponic	.064		



REMOTE CONTROL DIRECT ENTRY CODES

VCR	CODE NUMBERS
MGA	.070, 088, 267
MGN Technology	.267
MTC	.027, 267
Magnasonic	.305
Magnavox	.027, 062, 066, 108, 130, 137, 176
Magnin	.267
Manesth	.072, 099
Marantz	.030, 033, 062, 089, 108, 173, 188, 322
Marta	.064
Matsui	.031, 063, 115, 235, 236, 322, 375, 379
Matsushita	.062, 189
Memorex	.027, 062, 064, 066, 073, 074, 075, 131, 189, 236, 267, 295, 326, 334, 375, 506
Memphis	.099
Metz	.030, 033, 064, 189, 222, 254, 374
Minerva	.033, 222
Minolta	.069, 132
Mitsubishi	.070, 075, 088, 094, 102, 108, 200, 241, 269, 470
Motorola	.062, 075
Multitech	.027, 099
Murphy	.027
NAD	.085
NEC	.065, 067, 068, 077, 094, 109, 131, 484
Neckermann	.108
Nesco	.099
Nikkai	.383
Nikko	.064
Nikon	.061, 280
Noblex	.267
Nokia	.068, 073, 131, 133, 267
Nordmende	.068, 324, 347, 348, 411
Oceanic	.027, 068
Okano	.342, 375
Olympus	.062, 253
Optimus	.064, 075, 085, 131, 189, 459
Optonica	.089
Orion	.029, 031, 063, 115, 148, 211, 235, 236, 322, 375, 379, 506
Osaki	.027, 064, 099
Otto Versand	.108
Palladium	.033, 064, 068, 099
Panasonic	.062, 104, 189, 252, 253, 254, 273, 405
Pathe Cinema	.063
Pathe Marconi	.068
Penney	.062, 064, 065, 067, 069, 081, 267
Pentax	.069, 092, 132
Perdio	.027
Philco	.062, 065, 236, 506
Philips	.062, 089, 108, 137, 173, 411, 430
Phonola	.108
Pilot	.064
Pioneer	.085, 094, 108, 195, 262
Polk Audio	.108, 173
Portland	.047
Profex	.349
Profitronic	.267
Proline	.027

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Proscan	.087, 229
Protec	.099
Pulsar	.066, 078
Pye	.108
Quarter	.073
Quartz	.073, 182
Quasar	.062, 104, 189
Quelle	.108
RCA	.062, 069, 075, 087, 092, 104, 132, 133, 176, 229, 267, 304, 480
RFT	.430
Radio Shack	.027
Radiola	.108
Radix	.064
Randex	.064
Realistic	.027, 062, 064, 073, 074, 075, 089, 093, 131
Rex	.068, 411
Ricoh	.061, 280
Roadstar	.064, 099, 267, 305
Runco	.066
SBR	.108, 173
SEG	.267, 349
SEI	.031, 108
STS	.069
Saba	.068, 233, 234, 324, 347, 348, 411
Saisho	.031, 063, 115, 235, 236
Salora	.070, 073, 102, 133, 470
Samsung	.072, 078, 080, 267, 459
Sanky	.066, 075
Sansui	.027, 068, 094, 109, 236, 298, 506
Sanyo	.073, 074, 131, 267, 295, 399
Saville	.379
Schaub Lorenz	.027, 068, 131
Schneider	.027, 099, 108, 137
Scott	.070, 072, 148, 211, 237, 238, 239
Sears	.027, 062, 064, 069, 073, 074, 081, 084, 093, 131, 132
Seleco	.068
Semp	.072
Sentra	.047
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Shogun	.078, 267
Shorai	.031
Siemens	.030, 033, 064, 081, 108, 131, 173, 222, 295
Silva	.064
Singer	.072, 099
Sinudyne	.031, 108
Solavox	.047
Sonolor	.073, 089
Sontec	.064
Sony	.027, 038, 049, 059, 060, 061, 062, 280, 302
Sunkai	.375
Sunpak	.280
Sunstar	.027
Suntronic	.027
Sylvania	.027, 062, 070, 108, 130, 137
Symphonic	.027
TMK	.063, 235, 267
Tashiko	.027

VCR	CODE NUMBERS
Tatung	.027, 068, 108
Teac	.027, 068
Tec	.047
Technics	.062, 189, 253, 273
Teknika	.027, 062, 064, 079
Teleavia	.068
Telefunken	.068, 214, 347, 348, 411
Tenosal	.099
Tensai	.027, 349
Thomas	.027
Thomson	.068, 347, 411
Thorn	.063, 068, 131
Toshiba	.068, 070, 072, 084, 093, 108, 237, 239, 393, 404, 411
Totevision	.064, 267
Towada	.349
Triumph	.235
Uher	.267
Ultravox	.076
Unitech	.267
Universum	.027, 033, 064, 076, 108, 133, 222, 267, 326, 352
Vector	.072
Vector Research	.065, 067
Video Concepts	.067, 072, 088, 248
Videosonic	.267
Wards	.027, 062, 069, 074, 075, 087, 089, 099, 108, 176, 188, 239, 267
White Westinghouse	.099, 236, 305
XR-1000	.027, 062, 099
Yamaha	.065
Yamishi	.099
Yokan	.099
Yoko	.047, 267
Zenith	.027, 060, 061, 066, 236, 506

DIGITAL VIDEO DISC	CODE NUMBERS
Denon	.517, 661
GE	.549
Harman/Kardon	.609
JVC	.585, 650
Kenwood	.517, 561
Magnavox	.530
Marantz	.566
Mitsubishi	.548
Onkyo	.530, 909
Optimus	.907
Panasonic	.517, 659
Philips	.530, 566
Pioneer	.905, 907, 659
Proscan	.549
RCA	.549
Samsung	.908
Sharp	.657
Sherwood	.660
Sony	.906
Technics	.517
Theta Digital	.907
Toshiba	.530
Yamaha	.517, 572
Zenith	.530, 618

USING THE REMOTE'S VCR BUTTONS



When using the TV remote with a VCR, first make certain it is set to control your VCR (by the REMOTE CODE or SEARCH method).

BEGIN

- 1 Set the TV/VCR/ACC mode switch to VCR on the remote.
- 2 Point the top of the remote toward the front of the VCR (remote sensor window) when pressing the buttons.



VCR SYSTEM SWITCH

Set in the VCR position to send remote commands to the VCR.

PLAY BUTTON ▶

Press to begin playback of a video tape.

REWIND BUTTON ◀◀

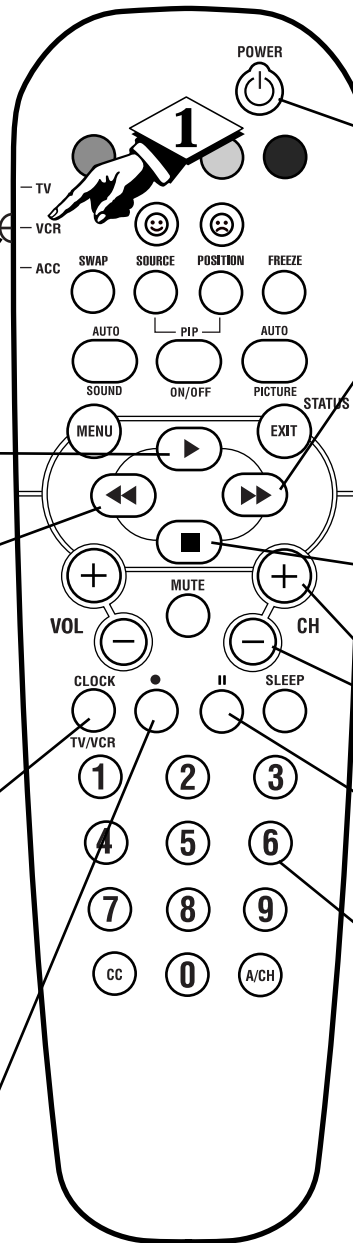
Press to rewind tapes. For some VCR's the STOP button may have to be pressed first, then REWIND. In playback mode hold down the button to view picture moving rapidly in reverse.

(Clock) TV/VCR BUTTON

Press while in the VCR mode (VCR indicator on the front of the unit will light) to view the playback of a tape. Press again to place in the TV position (VCR indicator light will go off) to view one program while recording another program. When used in the TV mode, the CLOCK/TV/VCR button will access the TV's Clock menu options.

RECORD • BUTTON

Hold the VCR • RECORD button down to begin a VCR recording.



POWER BUTTON

Press to turn the VCR ON and OFF.

FAST FORWARD BUTTON ▶▶

Press to rapidly advance the tape. For some VCR's you may need to press the STOP button first, then the FAST FORWARD button. In playback mode hold the button down to view the picture moving rapidly in the forward direction.

STOP BUTTON ■

Press to stop the motion of a tape in playback, rewind, fast forward, etc.

CHANNEL + & - BUTTONS

Press to scan up or down through the VCR channel numbers.

PAUSE BUTTON ||

Press to temporarily stop the tape during a playback or recording. Press again to release Pause.

NUMBER BUTTON

Press buttons for direct VCR channel selections.

SMART HELP



Remember, the VCR buttons on the remote will not operate your VCR if those features are not found on your VCR remote control.

Note: All VCR functions (particularly Search, Rewind, Fast Forward, etc.) will operate the same as with the original VCR remote control provided with the VCR.



BASIC PIP CONNECTION

Picture in Picture (PIP) is the showing of two pictures on the screen at the same time (one main screen picture and a smaller inset picture, or PIP).

Note: The PIP picture must be supplied by a VCR (or other accessory device equipped with a VIDEO OUTPUT jack).

The following is a basic PIP hookup using a VCR to supply the secondary picture.

BEGIN

1 Connect the **VIDEO OUT** jack on the VCR to the **VIDEO IN** (yellow) jack on the rear of the TV.

Also connect the AUDIO OUT (Right and Left) jacks from the VCR to the **AUDIO IN** jacks (red and white) on the TV.

Also be sure that there is a normal Cable or Antenna signal connection between the VCR and the TV.

This completes the basic PIP hookup. Refer to page 44 for "More PIP Connections."

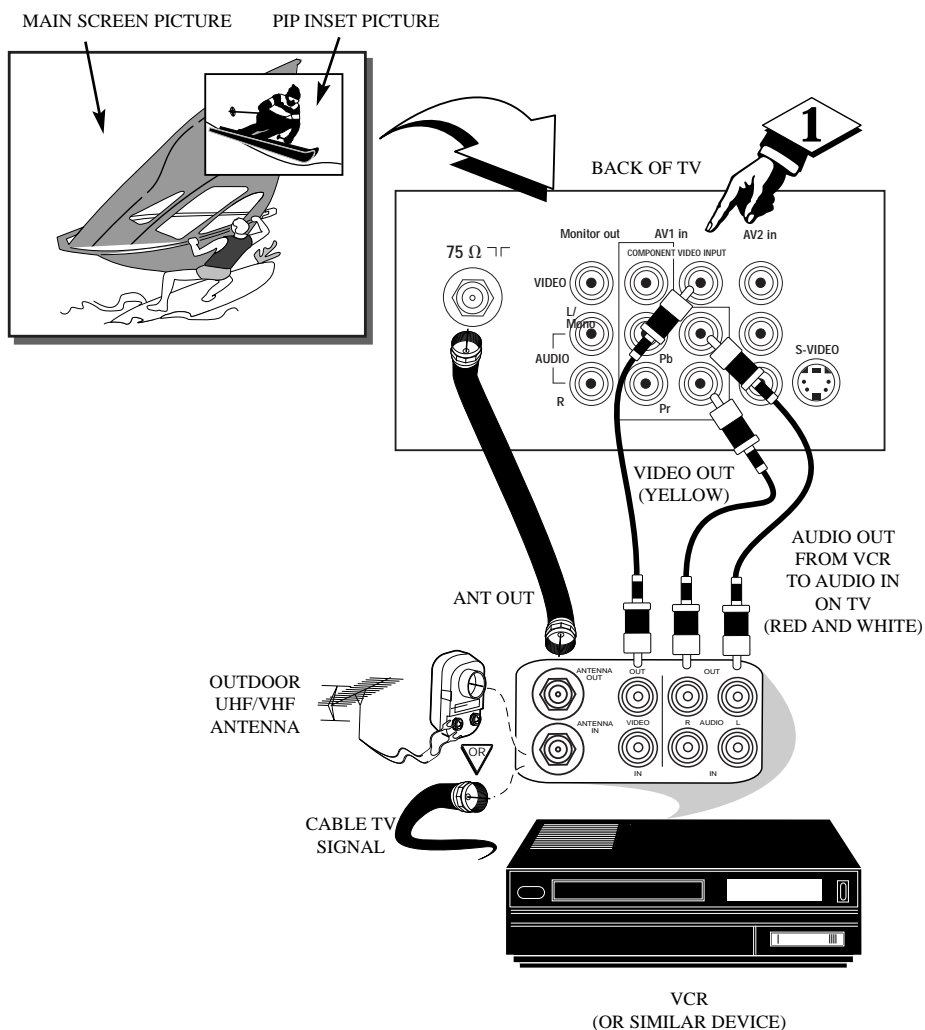
2 Move to the next page after the VCR to TV PIP connections have been completed.

SMART HELP



Remember, for other possible connections see page 44 for the "More PIP Connections" section.

If you have a single (Monaural) Audio Output VCR, there are two methods of connection. Use only the Left Audio IN and leave the Right Audio IN with NO connection. Or, "Y" connectors are available to complete your connection. Contact your dealer, or our Parts Information Center, 1-800-851-8885, for details.



CHOOSING THE PIP SOURCE



The picture for the PIP window can come through either the ANT/CABLE or any of the external Audio/Video connections at the rear of the TV. The Side A/V and Component Input connections cannot be used as a PIP Source. PIP Source simply tells the TV which one of these sources it is to show in the PIP window.

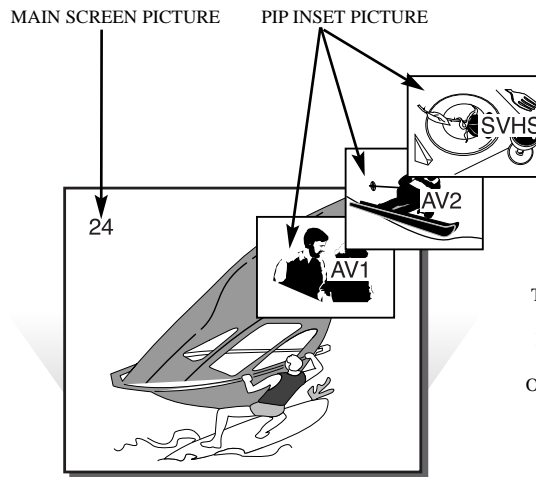
BEGIN

- 1 Turn the TV and VCR (or other device hooked to the external A/V connections) ON.
- 2 Press the PIP ON/OFF button on the remote control. The PIP window should appear in the upper right hand portion of the screen.
- 3 Press the PIP SOURCE button on the remote to toggle between the different external connections.

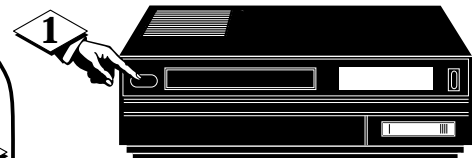
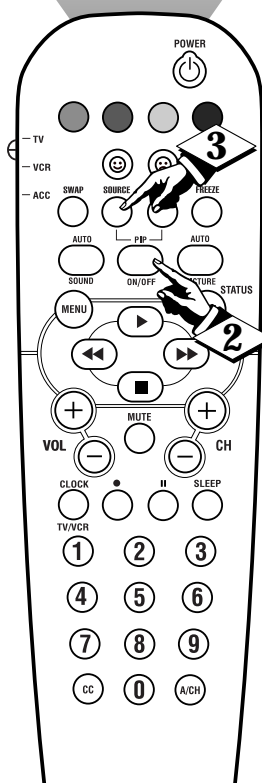
The PIP SOURCE may come from the following:

AV 1, AV 2, SVHS: for picture signal coming from the external Audio/Video jacks on the TV. (You must have an external device hooked up at these locations.)

ANTENNA/CABLE: for a picture signal coming from the ANT/CABLE Input on the back of the TV.



THE PIP SOURCE PICTURE CAN COME FROM THE ANT/CABLE INPUT, THE AV1, AV2, S-VIDEO VIDEO INPUTS, NOT THE SIDE OR COMPONENT VIDEO INPUTS.



VCR
(OR SIMILAR DEVICE)

NOTE: The CVI (Component) VIDEO and SIDE VIDEO INPUT JACKS will not be able to reproduce a picture for PIP use.

SIDE A/V Input Jacks - Many, or all of the PIP functions will not be available when viewing a picture from the SIDE A/V Input Jacks (or FRONT channel).

Component Video Input Jacks - Please refer to the Component Video Connection section describing how to use the Component Video picture source with the AV1 jacks to reproduce a picture in the PIP window from a device such as a DVD on the AV1 channel. If CVI is being viewed on the main TV screen and PIP is turned ON, the CVI inputs are disabled and the picture will be shown from the AV1 Input jacks. When PIP is turned OFF, the picture from the Component Video Input jacks will be restored.



USING THE PIP FEATURE REMOTE BUTTONS

By using the PIP buttons on the remote control, the PIP picture can be moved and swapped with the main screen. The PIP inset picture can also be frozen within the PIP window.

BEGIN

- 1 Press the **PIP ON/OFF** button to show the PIP picture. PIP appears in the upper right of the screen.

Press the **PIP ON/OFF** button again and the PIP picture is reduced in size.

Pressing the **ON/OFF** button a third time will remove the PIP picture from the screen.

- 2 Press the **PIP POSITION** button on the remote to move the PIP picture to any of the four corners.

- 3 Press the **PIP FREEZE** button on the remote to stop the action within the PIP window. Press the **PIP FREEZE** button again to resume the normal viewing action.

- 4 Press the **PIP SOURCE** button on the remote to choose a different PIP source (AV1, AV2, or the TV's tuner).

- 5 Press the **PIP SWAP** button to swap the main screen picture with the PIP inset picture. Pressing the **PIP SWAP** button again will return the main picture to the screen.

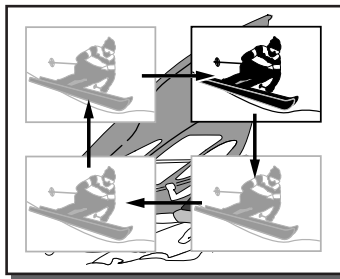


SMART HELP

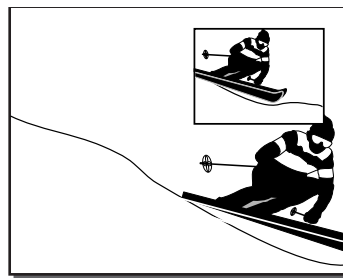
Remember, the **SIDE A/V** and **COMPONENT VIDEO** Input jacks cannot reproduce a PIP picture. Therefore, if these channels (**FRONT & CVI**) are being viewed on the main screen, many or all of the PIP functions may not work.



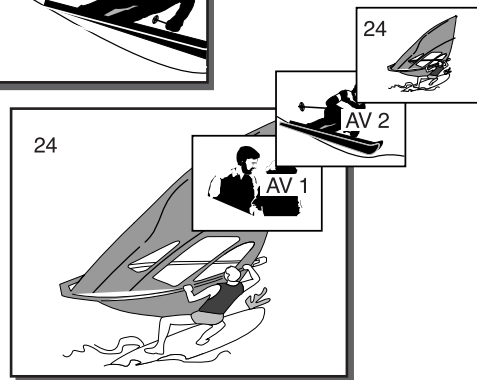
1. PIP ON/OFF



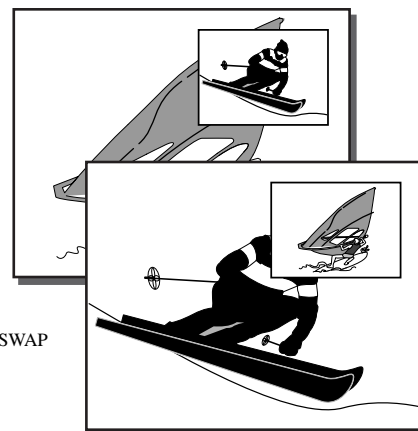
2. PIP POSITION



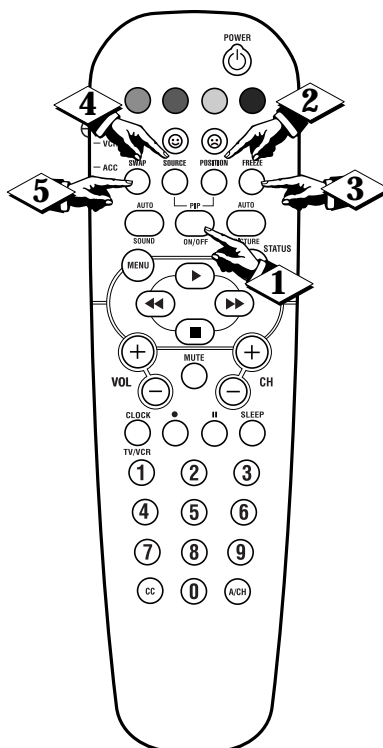
3. PIP FREEZE



4. PIP SOURCE



5. PIP SWAP



ADJUSTING THE PIP TINT CONTROL



The Picture-In-Picture (PIP) Tint control is used to make fine tune adjustments to the picture's quality for PIP (when it is shown on the TV screen).

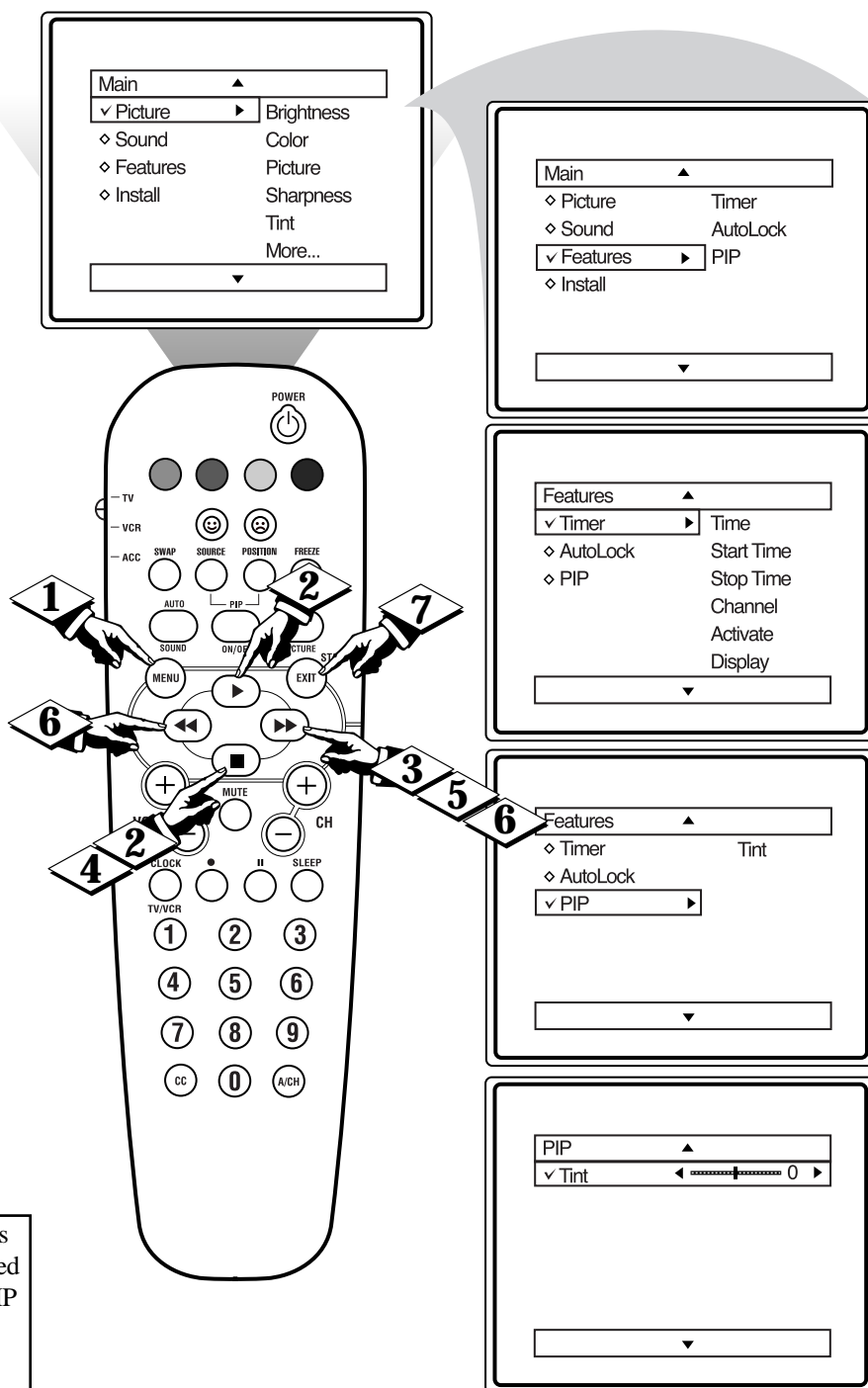
BEGIN

- 1 Press the **MENU** button on the remote to show the on-screen menu.
- 2 Press the **CURSOR DOWN** ■ button three times to select the **FEATURES** menu.
- 3 Press the **CURSOR RIGHT** ►► button. The menu will shift to the left and **TIMER** will be highlighted.
- 4 Press the **CURSOR DOWN** ■ button to select the **PIP** menu.
- 5 Press the **CURSOR RIGHT** ►► button again to shift the display to the **TINT** adjustment bar.
- 6 Press the **CURSOR RIGHT** ►► and **CURSOR LEFT** ◀◀ buttons to adjust the **TINT** bar to the desired levels.
- 7 Press the **STATUS/EXIT** button to remove the menu from the screen.



NOTE: If any AutoLock blocking options are set to ON, when this control is accessed the screen will turn white, blocking the PIP picture.

When the PIP button is pushed and AutoLock blocking options are turned ON, enter the access code you created in the AutoLock feature. This will allow the PIP TINT to be changed while the PIP picture is present. Entering your access code will UNBLOCK ALL channels. To reset the blocking options, turn the TV off, then turn the TV back on. All previously blocked channels will be blocked again.





MORE PIP (PICTURE-IN-PICTURE) CONNECTIONS

PIP hookups are possible with a Cable Box and a VCR.

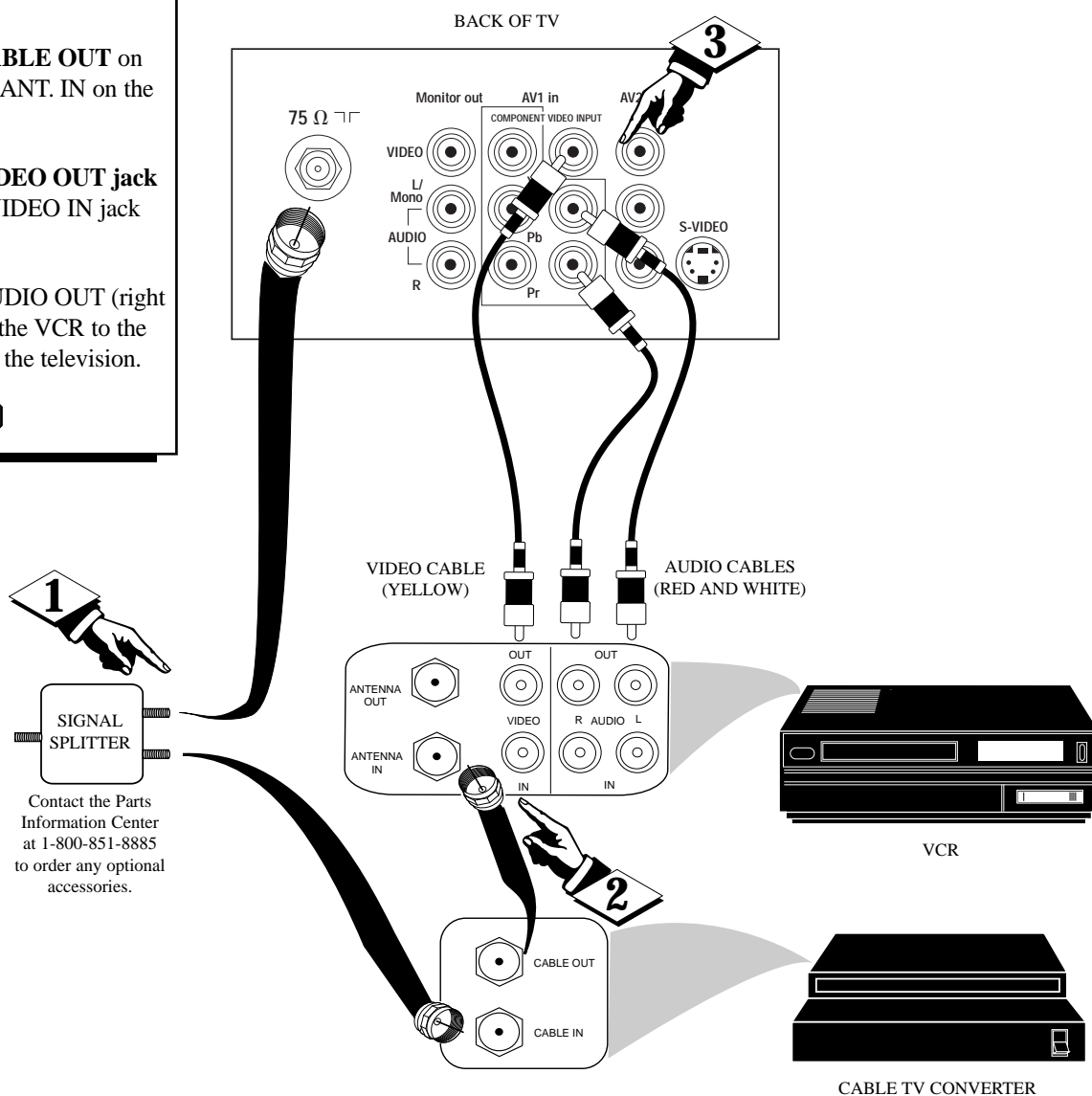
BEGIN

1 First use an optional signal splitter and connect the original cable TV signal to both the CABLE IN on the Cable Converter and the ANTENNA plug on the rear of the television.

2 Connect the CABLE OUT on the Converter to the ANT. IN on the VCR.

3 Connect the VIDEO OUT jack on the VCR to the VIDEO IN jack on the TV.

Also connect the AUDIO OUT (right and left) jacks from the VCR to the AUDIO IN jacks on the television.



Contact the Parts Information Center at 1-800-851-8885 to order any optional accessories.

TIPS IF SOMETHING ISN'T WORKING



Please make these simple checks before calling for service. These tips can save you time and money since charges for TV installation and adjustment of customer controls are not covered under your warranty.

No Power

CAUTION: A video source (such as a video game, Compact Disc Interactive - CDI, or TV information channel) which shows a constant non-moving pattern on the TV screen, can cause picture tube damage. When your TV is continuously used with such a source the pattern of the non-moving portion of the game could leave an image permanently on the picture tube. When not in use, turn the video source OFF. Regularly alternate the use of such video sources with normal TV viewing.

- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert plug into outlet and push POWER button again.
- Check that outlet is not on a wall switch. Be sure fuse is not blown on AC Power strip.

No Picture

- Check antenna connections. Are they properly secured to the TV's 75Ω plug?
- Check the TUNER MODE control for CABLE or ANTENNA setting.
- Check Audio/Video Input jack connections if using a VCR or other external device.

No Sound

- Check the VOLUME buttons.
- Check the MUTE button on the remote control.
- Check Audio/Video Input jack connections if using a VCR or other external device.

Unusual Screen Coloring

- Turn the TV OFF for several seconds, then power the set back ON.
- Unplug the TV for FIVE minutes. Plug the TV back into the AC outlet and power the TV ON. This should correct the problem.
- Check the Picture menu options for proper control settings.
- Press the Auto Picture button on the remote to change the color options. If the color resets itself, readjust the Picture menu option control.

Remote Does Not Work

- Check batteries. Replace with AA Heavy Duty (Zinc Chloride) or Alkaline batteries if necessary.
- Clean the remote and the remote sensor window on the TV.
- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert plug into outlet and push POWER button again. Be sure fuse is not blown on AC Power strip.
- Check to be sure TV outlet is not on a wall switch.

TV Displays Wrong Channel or No Channels Above 13

- Repeat channel selection.
- Add desired channel numbers (CHANNEL control) into TV memory.
- Check to be sure the TUNER MODE control is set to the CABLE option.

Cleaning and Care

- To avoid possible shock hazard be sure the TV is unplugged from the electrical outlet before cleaning.
- When cleaning the TV screen take care not to scratch or damage the screen surface (avoid wearing jewelry or using anything abrasive). Wipe the front screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
- Gently wipe the cabinet surfaces with a clean cloth or sponge dampened in a solution of cool clear water. Use a clean dry cloth to dry the wiped surfaces.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent marring of the cabinet finish.



GLOSSARY TO TELEVISION TERMS

Auto Programming • The procedure of adding or deleting channel numbers into the Television's memory circuits. In this way the Television "remembers" only the locally available or desired channel numbers and skips over any unwanted channel numbers.

Coaxial Cable • A single solid antenna wire normally matched with a metal plug (F-type) end connector that screws (or pushes) directly onto a 75 Ohm input found on the Television or VCR.

Closed Caption • Broadcast standard which allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired this feature uses on-screen "text boxes" to show dialogue and conversations while the TV program is in progress.

Front Audio/Video Inputs • Located on the front of the TV these connectors (phono type plug) are used for the input of audio and video signals. Designed for easy use with VCRs or cameras.

On Screen Displays (OSD) • Refers to the wording or messages generated by the television (or VCR) to help the user with specific feature controls (color adjustment, programming, etc.).

Menu • An on-screen listing of feature controls shown on the Television screen that are made available for user adjustments.

PIP • Picture in Picture (PIP) is the showing of two pictures on the screen at the same time (one main screen picture and a smaller inset picture, or PIP).

Remote Sensor Window • A window or opening found on the Television control panel through which infrared remote control command signals are received.

Tuner Mode • Designed for first time setup and use. Settings antenna or cable TV signal connections.

Status/Exit • Allows the user to quickly confirm what channel number is currently being viewed. Status can also be used to clear the Television of on screen displays or information (rather than waiting for the displays to "time out" or automatically disappear from the screen).

Surf • The action of scanning specific channel in a limited channel list.

Twin Lead Wire • The more commonly used name for the two strand 300 Ohm antenna wire used with many indoor and outdoor antenna systems. In many cases this type of antenna wire requires an additional adapter (or balun) in order to connect to the 75 Ohm Input terminals designed into the more recent Televisions and VCRs.

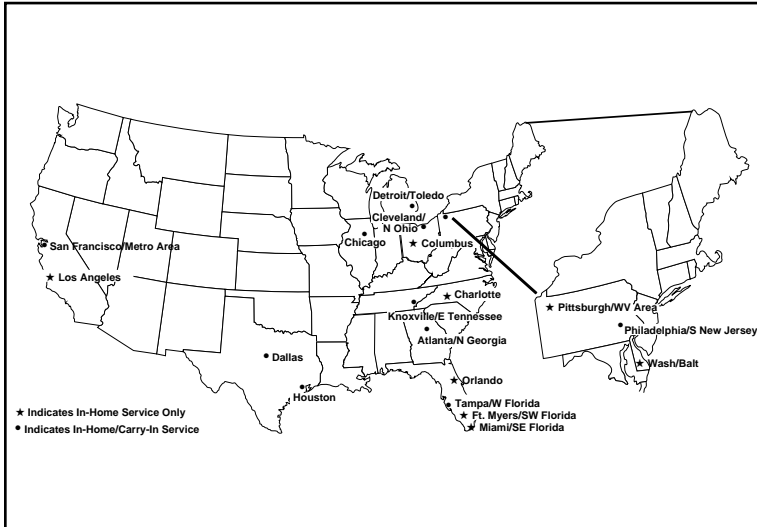
Quadra Surf • The feature that allows the programming of four separate Surf lists holding up to 10 channels each.



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FACTORY SERVICE LOCATIONS



NOTE: If you reside in one of our Philips Factory Service Branch areas (see directory on back), you can contact the nearest Service Branch to obtain efficient and expedient repair for your product. If your product is In-Warranty, you should have proof-of-purchase to ensure No Charge Service. For Out-of-Warranty service, call the location nearest you.

NOTA: Si vous résidez dans une des régions desservies par une succursale de service après vente du fabricant Philips (voir liste ci-dessous), vous pourrez contacter la branche de service après vente la plus près de chez vous pour obtenir un service après vente rapide et efficace. Si le produit est sous garantie, il suffira de présenter une preuve d'achat pour bénéficier d'un service sans frais. Pour les produits non couverts par la garantie, contactez le centre le plus près de chez vous.

NOTA: Si Ud. reside en una de nuestras zonas para sucursales Philips de servicio al de fábrica (ver directorio más abajo), Ud. puede comunicarse con la sucursal de servicio más cercana para obtener una reparación oportuna y eficaz de su producto. Si su producto está todavía bajo garantía, Ud. debe presentar comprobante de compra para no ocasionar ningunos cargos por servicio. Para servicio después del vencimiento de la garantía, llame al lugar más cercano de los abajo indicados.

In Canada

How you can obtain efficient and expedient carry-in, mail-in, or in-home service for your product Please contact Philips at 1-800-661-6162 (French speaking) or 1-800-363-7278 (English speaking)

Au Canada

Comment obtenir le service après-vente pour les produits apportés ou envoyés par la poste à notre centre de service ou le service à domicile Veuillez contacter philips à: 1-800-661-6162 (Francophone) ou 1-800-363-7278

En el Canadá

Cómo recibir servicio eficiente para su producto, en persona, por correo o a domicilio Favor de comunicarse con Philips al: 1-800-661-6162 (francófono) o 1-800-363-7278 (anglófono)

QUALITY SERVICE IS AS CLOSE AS YOUR TELEPHONE! SIMPLY LOOK OVER THE LIST BELOW FOR THE NUMBER OF A FACTORY SERVICE CENTER NEAR YOU. YOUR PRODUCT WILL RECEIVE EFFICIENT AND EXPEDIENT CARRY-IN, MAIL-IN, OR IN-HOME SERVICE, AND YOU WILL RECEIVE PEACE OF MIND,

KNOWING YOUR PRODUCT IS BEING GIVEN THE EXPERT ATTENTION OF PHILIPS' FACTORY SERVICE.

COMMENT OBTENIR NOTRE SERVICE APRÈS VENTE RAPIDE ET EFFICACE SOIT PAR COURRIER, À DOMICILE, OU EN SE PRÉSENTANT À UN CENTRE DE SERVICE PHILIPS. PLUS DE 600 CENTRES DE RÉCEPTION DE PRODUITS À RÉPARER À TRAVERS LE PAYS: CONTACTER LE CENTRE DE SERVICE AUX CONSOMMATEURS LE PLUS PROCHE POUR SAVOIR L'EMPLACEMENT DE CES DÉPÔTS DANS UN RAYON DE 50 À 75 MILES (80 KM À 120 KM) DU CENTRE DE SERVICE LOCAL.

CÓMO OBTENER UN SERVICIO OPORTUNO Y EFICIENTE POR CORREO, EN CASA O EN PERSONA PARA SU PRODUCTO A TRAVÉS DE UN CENTRO PHILIPS DE SERVICIO. MAS DE 600 SITIOS POR TODO EL PAIS PARA LA RECEPCION DE PRODUCTOS NECESITADOS DE REPARACIONES: COMUNICARSE CON EL CENTRO DE SERVICIO DE FABRICA MAS CERCANO PARA ESTOS LUGARES DENTRO DE UN RADIO DE 80 A 120 KM (50 A 75 MILLAS) DEL CENTRO DE SERVICIO LOCAL.

ATLANTA

Philips Factory Service
200 N. Cobb Pkwy., Suite 120
Marietta, GA 30062
800-273-1501

TAMPA

Philips Factory Service
1911 US Highway 301 North
Tampa, FL 33619
800-442-2027

SAN FRANCISCO

Philips Factory Service
681 East Brokaw Rd.
San Jose, CA 95112
800-300-9013

HOUSTON

Philips Factory Service
1110 N. Post Oak Rd., Suite 100
Houston, TX 77055
800-952-3254

CLEVELAND

Philips Factory Service
950 Keynote Circle
Brooklyn Heights, OH 44131
800-331-7037

DETROIT

Philips Factory Service
25173 Dequindre
Madison Heights, MI 48071
800-438-1398

DALLAS

Philips Factory Service
415 N. Main Street, #107
Euless, TX 76040
800-952-3254

CHICAGO

Philips Factory Service
1279 W. Hamilton Pkwy.
Itasca, IL 60143
800-531-2922

KNOXVILLE

Philips Factory Service
6700 D Papermill Rd.
Knoxville, TN 37919
800-821-1767

PHILADELPHIA

Philips Factory Service
352 Dunks Ferry Rd.
Bensalem, PA 19020
800-847-9320

LIMITED WARRANTY

COLOR TELEVISION

90 Days Free Labor

One Year Free Replacement of Parts (Two Years Free Replacement on Color Picture Tube)

This product can be repaired in-home.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. *For 90 days thereafter*, all parts will be repaired or replaced free, and labor is free. From 90 days to one year from the day of purchase, all parts will be repaired or replaced free, but you pay for all labor charges. From one to two years from the day of purchase, you pay for the replacement or repair of all parts except the picture tube, and for all labor charges. After two years from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...

Contact a Philips factory service center (see enclosed list) or authorized service center to arrange repair.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

1-800-894-5463

1-800-363-7278

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips Consumer Electronics Company, P.O. Box 2976, Longview, Texas 75606, (903) 242-4800